



COLORADO CHILDREN'S
IMMUNIZATION COALITION

Immunization Outreach, Tools and Data for Back to School

Wednesday, September 25, 2019

Presented by:

Susan Workman, RN, BSN, Otero County Health Department

Kristin Mlynarczyk, MPH and Emily Clancy, Colorado Children's Immunization Coalition

Tavio Pirocchi, MA, Colorado Department of Public Health and Environment

VACCINE- PREVENTABLE DISEASES IN COLORADO'S CHILDREN VOLUME 2 REPORT

NOW AVAILABLE

CHARGES TO
TREAT INFLUENZA
TOTALLED OVER
\$367 million

IN COLORADO DURING THE 2017-18 FLU SEASON,
INCLUDING HOSPITAL AND EMERGENCY
DEPARTMENT VISITS FOR OVER 15,000 PEOPLE.

ONLY **87%** OF
COLORADO
KINDERGARTENERS

WERE UP TO DATE WITH THE MEASLES, MUMPS
AND RUBELLA (MMR) VACCINE IN 2018-19, WELL
BELOW THE 95% THRESHOLD NEEDED TO PREVENT
A MEASLES OUTBREAK.

NEARLY **5%** OF
KINDERGARTENERS
EXEMPTED

FROM SCHOOL-REQUIRED VACCINATIONS IN
COLORADO DURING THE 2018-19 SCHOOL YEAR; 89%
OF ALL EXEMPTIONS ARE FOR PERSONAL BELIEF
REASONS.

ONLY **45%** OF
COLORADANS
GOT A FLU SHOT

IN 2017-18 DESPITE THE HIGH BURDEN OF
INFLUENZA, INCLUDING 103 PEDIATRIC FLU DEATHS
NATIONWIDE AND OVER \$14 MILLION IN LOST
WAGES AND PRODUCTIVITY FROM MISSING SCHOOL
OR WORK IN COLORADO.

(Improved) vaccine stock photos now available on SELF



Vaccines Save Lives

<https://www.self.com/package/vaccines>



Special Guest Lecture

Hosted by the Colorado School of Public Health's Center for Global Health and the Colorado Children's Immunization Coalition

Lessons Learned from the Decade of Vaccines and Opportunities for Future Progress

Presented by Jon Kim Andrus, MD

Director, Division of Vaccines and Immunizations at the Center for Global Health at the Colorado School of Public Health

Tuesday, October 8, 2019 • 11:30 a.m. – 12:30 p.m.

Anschutz Medical Campus • Education Building 2 South, Room 2305
13121 E 17th Ave, Aurora, CO 80045

Register today!

BIG SHOTS

• SUPPORTING •

LITTLE TOTS

A luncheon benefiting
the Colorado Children's Immunization Coalition

THURSDAY, OCTOBER 24, 2019

History Colorado Center - Colorado Room
1200 Broadway, Denver, CO 80203
12:00 p.m. - 1:00 p.m.

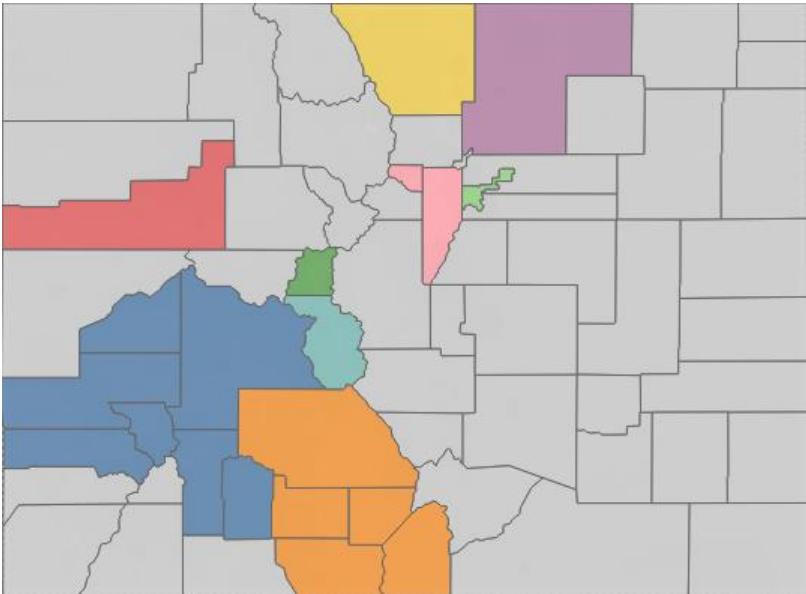
Featuring guest speaker **Peter J. Hotez, MD**, author of *Vaccines Did Not Cause Rachel's Autism* and Dean of the National School of Tropical Medicine and Professor of Pediatrics and Molecular Virology & Microbiology at Baylor College of Medicine



Tickets & Information:
childrensimmunization.org

Buy
tickets
today!

CCIC AmeriCorps Program: Colorado Immunity Corps (proposed)



Counties covered: Weld, Larimer, Jefferson, Gilpin, Garfield, Lake, Chaffee, Delta, Denver, Montrose, San Miguel, Ouray, Hinsdale, Gunnison, Mineral, Saguache, Rio Grande, Alamosa, Conejos, Costilla



COLORADO CHILDREN'S
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- CCIC was awarded an AmeriCorps planning grant in October 2018 and has been working to develop a ready-to-implement program for the past year
- AmeriCorps members will serve twenty counties across the state through local public health
 - See map - each color corresponds to one members' coverage area
 - Within these counties, **~17,700 school-aged children** are not fully immunized against measles
- During their year of service, members will:
 - Support and/or develop local immunization coalitions
 - Organize community-based and/or school-located immunization clinics
 - Coordinate community & provider education events
 - Develop and/or disseminate vaccine educational materials
 - Support immunization data & school nurse activities



As a reminder...

- Please sign-in
- Complete the meeting evaluation
- Become a CCIC member
- Grab some food!



COLORADO CHILDREN'S
IMMUNIZATION COALITION

CCIC Meeting

September 25, 2019

Susan Workman, RN, BSN
Otero County Health Department

Demographics

Located in Southeastern Colorado

OCHD provides public health services for Crowley and Otero Counties

Work with schools and daycares

Crowley County

Fowler

Manzanoa

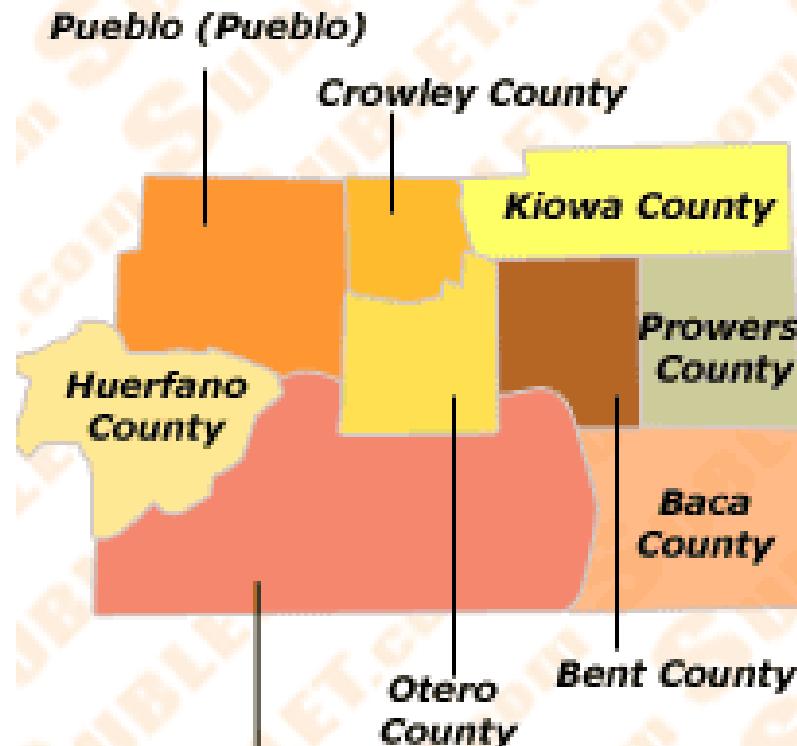
Rocky Ford

Swink

Cheraw

East Otero

La Junta



Outline:

- How relationships with daycares and schools were established
- How they are maintained
- Other insights

How relationships were established

- OCHD provides public health services in both Crowley and Otero Counties.
 - We are considered rural/frontier
 - Our resources are limited
 - Public health is a community effort, involving partner relationships and collaborations: schools, daycares, providers, hospital, nursing homes, home health

Relationships

- Communication between agencies
- Face to face meetings
- Annual Regional School Nurse/Public health nurse meeting
- Visiting daycare entities
 - Immunization record inspections
 - VFC grant related activities
- Offer to assist with policy development if needed
- Follow-up phone calls and emails

Successes include

- Schools and daycares that enforce their immunization policy
- Maintenance of communication
 - Sending out clinic schedules
 - Offering extended clinic hours on school registration days
 - Scheduling Immunization clinic days when school is out
 - Example: In Crowley County, no school on Mondays, we set up specific IZ clinic days for Mondays. For Otero County, Fridays are set aside.

- Parent education
- When the child is referred over for the required immunization, while they are present, we educate of the recommended immunizations.
- For example: We explain the benefits of the Meningococcal and HPV
 - Why we recommend the additional vaccinations
- Some parents elect for only the required immunization

Immunization of Students

The Board directs the superintendent or designee(s) to annually provide parents/guardians of each student enrolled in the district a copy of the standardized immunization document developed by the Colorado Department of Public Health and Environment. The standardized immunization document includes a list of required and recommended immunizations and the age at which each immunization should be given.

No student is permitted to attend or continue to attend any school in this district without meeting the legal requirements of immunization against disease unless the student has a valid exemption for health, religious, personal or other reasons as provided by law.

Students who do not submit an up-to-date certificate of immunization or a written authorization signed by one parent/guardian requesting local health officials to administer the immunizations or present a valid exemption will be suspended and/or expelled from school according to regulation JLCB-R.

All information distributed to parents/guardians by the district will inform them of their rights to seek an exemption for immunization requirements.

Adopted November 26, 1991

Revised November 10, 1997

Revised August 8, 2011

EAST OTERO SCHOOL DISTRICT
LA JUNTA INTERMEDIATE SCHOOL
901 Smithland
(719)384-9151

DATE

Dear Parent or Guardian:

According to our records, your child does not have all the immunizations that are required by **Colorado State Law (CRS 1989, 25-4-904)** for students attending Colorado Schools. In order for your child to stay in compliance with the Colorado State Law, you must **provide proof** that all immunizations have been received. Please make sure this is done by **DATE**, to avoid your child from being suspended. If your child is not up-to-date by **DATE**, your child will be sent home from school until an immunization plan can be established with the school nurse. This is a second notice.

Your child needs the following immunization shot(s).

DPT (Diphtheria/Tetanus/Pertussis) _____

Polio _____

MMR (Measles/Mumps/Rubella) _____

Hepatitis B _____

Varicella or History of chicken pox _____

The Otero County Health Department will be hosting an immunization clinic on December 21st from 9:00am to 11:30am and from 1:00pm to 4:30pm.

If you have any question, please contact the Otero County Health Department at 383-3040, the Primary School Health Aide at 384-2991, or the School Nurse at 384-9151.

Thank you,
Jessie Wallace, RN
La Junta School Nurse

Notice of Immunization Requirement
Required Immunization(s) for School

Date: _____

To the parent/guardian of: _____

The child listed above either does not have an immunization record OR does not have an up-to-date Certificate of immunization on file. **If a record for the immunization(s) marked below is not returned to us within 14 days, the child may be excluded from school according to the Colorado Immunization law.**

Our records show that the following shot(s) is/are needed based on your child's grade level: (please contact your health care provider or local health department at **(719)383-3040** to obtain required immunizations).

DTaP
(Diphtheria/Tetanus/Pertussis)

Polio
(Measles, Mumps, Rubella)

PCV7
(Pneumococcal Conjugate)

Td
(Tetanus/Diphtheria)

MMR
(Measles, Mumps, Rubella)

Hepatitis B
(Haemophilus Influenza Type B)

Hib
(Haemophilus Influenza Type B)

Varicella *
(Chickenpox)

Tdap
(Tetanus/Diphtheria/Diphtheria)

* If a child has had Chickenpox disease it must be documented by a health care provider and can include a disease history screening by a public health nurse or a school nurse.

If the child **had** this/these shot(s) already, please make sure we receive an up-to-date immunization record. If the child **needs** (an) immunization(s), please make an appointment with a healthcare provider as soon as possible - and tell us the appointment date and time as well as the name and phone number of the clinic.

Please note: If an immunization is against your **religious beliefs**, you must sign a religious exemption. If your child cannot receive an immunization for **medical reasons**, a physician must sign a medical exemption. If you have **personal beliefs** opposed to an immunization, you must sign a personal exemption. Exemption forms can be found on the reverse side of the Colorado Department of Public Health and Environment Certificate of Immunization.

Thank you for your prompt attention to this matter. Please see the above chart of required immunizations. If you have any questions call (719)384-9151 or (719)468-1416.

Sincerely,



Vaccines are one of the greatest public health achievements of the past century and save an estimated 3 million children's lives every year. The Colorado Department of Public Health and Environment strongly supports vaccination as one of the easiest and most effective tools in preventing diseases that can cause serious illness and even death. For nearly all children, the benefits of preventing disease with a vaccine far outweigh the risks. Declining to follow the Center for Disease Control and Prevention's Advisory Committee on Immunization Practices (ACIP) Immunization schedule for numbers, space and timing of doses, may endanger an unvaccinated child's health and others who come into contact with him/her. Some vaccine-preventable diseases are common in other countries and unvaccinated children could easily get one of these diseases while traveling or from a traveler.

Colorado law C.R.S. § 25-4-902 requires all students attending any school in the state of Colorado to be vaccinated against certain vaccine-preventable diseases as established by Colorado Board of Health rule 6 CCR 1009-2, unless an exemption is filed. This law applies to students attending public, private and parochial kindergarten, elementary and secondary schools through 12th grade, colleges or universities, and child care facilities licensed by the Colorado Department of Human Services, including child care centers, school-age child care centers, preschools, day camps, resident camps, day treatment centers, family child care homes, foster care homes, and Head Start programs. Prior to kindergarten, a non-medical exemption must be filed each time a student is due for vaccines according to the schedule developed by the ACIP. "From kindergarten through 12th grade, a non-medical exemption must be filed every year during the student's school enrollment/registration process." Students with a recorded immunization exemption may be kept out of a child care facility or school during a disease outbreak. The length of time will vary depending on the type of the disease and the circumstances of the outbreak.

Please complete all required fields below. Incomplete forms will not be accepted. **All fields are required unless noted optional.**

Type of Non-Medical Exemption Claimed: Personal Belief Religious

Student Information

Last Name:	First Name	(optional) Middle Name:
Gender: <input checked="" type="radio"/> Female <input type="radio"/> Male	Date of Birth:	
Street *	Street Name	Street Type (e.g. Ave.)
Unit #	P.O. Box:	
City	State	Zip Code:
Email Address:	County:	
Phone Number:	Home: <input type="radio"/> Cell <input checked="" type="radio"/>	

Parent/Guardian Completing This Form: Check if an emancipated student or student over 18 years old

Parent/Guardian Completing This Form: <input type="checkbox"/> I Check if an emancipated student or student over 18 years old		(optional) Middle Name:
Last Name:	First Name:	
Relationship to student:	<input checked="" type="checkbox"/> Mother <input type="checkbox"/> Father <input type="checkbox"/> Guardian	
Street t:	Street Name	Street Type (e.g. Ave):
Unit N	p 0 Bax:	
City:	State:	Zip Code:
Email Address:	County:	
Phone Number:	<input type="checkbox"/> Home <input type="checkbox"/> Cell	

School/Licensed Child Care Facility Information

School/Licensed Child Care Facility Information:	
Schaa Nam /LltcnP.d Chld Can fadilly	
School District.	: Check it Not Applicable
Address:	
City:	! State: [Lip Code
Phone Number:	Grade or Student:

Survey to school nurses

- Does school district have an immunization policy? 100% stated yes
Stated universal standard policy
- Does school district enforce the immunization policy?
 - Immunization record is required for entry into school
 - First month of school is dedicated to care plans
 - Send out letters to parents for non-compliance

No response – send out letters: Students who do not submit an up-to-date certificate of immunization or a written authorization signed by one parent/guardian requesting local health officials to administer the immunizations or present a valid exemption will be suspended and/or expelled from school according to regulation JLCB-R (copied from school immunization policy)

Send out exemption forms

Successes (School nurses)

- Fowler: compliance after expulsion letter sent out
- No resistance from parents when enforcing the immunization policy
- School nurse calls parent to remind/encourage them regarding immunizations – sees increased compliance with the individual call

Barriers

- Difficulty getting a response from parents. They state they didn't get a letter.
- Non-compliance for families that are temporary residents
- School registration – only parents came in for school registration, didn't bring students with them
- Too many things demanding time
- Immigrants new to the area lacking immunizations or proof of immunizations
- Some families home school, when entering the school system, they are non-compliant

Reasons behind exemptions

- Majority (100%) are personal exemptions
- Reasons include:
 - Bad reactions in the past
 - Wanting medical exemption
 - Health fears

Collaboration

- Work with schools to contact individuals who are out of compliance
- OCHD sets one day a week for walk-in immunizations. Mondays for Crowley county and Fridays for Otero County.
- OCHD has one immunization clinic day per month. Appointments are mailed out. Information is given to school nurses.
- Several school nurses suggested using Facebook as a means to remind parents to take children in for immunizations.

Areas for improvement

- Parental education
- Increase education from School nurse and primary care provider to parents; what is considered a normal reaction following immunization.
- Any one who administers vaccines provide post vaccination expectations



School Immunization Data Tools

*September 25, 2019
CCIC Coalition Meeting*

Kristin Mlynarczyk, MPH

Emily Clancy

What We Do



Coalition Building: Strengthen and expand Colorado's childhood immunization initiatives and data through partnerships and collaboration



Public Policy: Advocate for policies that aim to better protect Colorado children and communities



Free and Low-Cost Vaccines: Partner to provide free and low-cost vaccines to families in need



Community Outreach and Awareness: Communicate vaccine information with healthcare providers, parents, the media and organizations



Provider Education: Educate health care professionals on crucial and timely vaccine-related topics



Data Translation and Action: Spearhead partnerships to advance the understanding and utilization of local, state & national immunization data



Overview

- Background on Colorado immunization data
- Tools to contextualize and disseminate data
 - Partnerships
 - Development and Data Analysis
 - Dissemination, Evaluation & Next Steps
- School Immunization Dashboards

Vaccination Coverage Among Children Ages 19-35 Months in the US and CO*

	2011	2012	2013	2014	2015	2016	2017
United States	68.5	68.4	70.4	71.6	72.2	70.7	70.4
Colorado	65.7	71.7	69.2	72.8	75.4	76.4	71.0
HP 2020 Goal	80	80	80	80	80	80	80

*4:3:1:3:3:1:4 series includes 4 DTP, 3 Polio, 1 MMR, 3 Hib, 3 HepB, 1 Varicella and 4 PCV

Source: CDC National Immunization Survey 2011-2017

MMR Vaccination Coverage Among Kindergarteners in the US and CO

	2011	2012	2013	2014	2015	2016	2017
United States	94.8	94.5	94.7	94.0	94.6	94.0	94.3
Colorado	86.8	85.7	81.7	86.9	87.1	87.3	88.7
HP 2020 Goal	95	95	95	95	95	95	95

Source: CDC School Vaccination Assessment Program, 2011-12 through 2017-18 school years

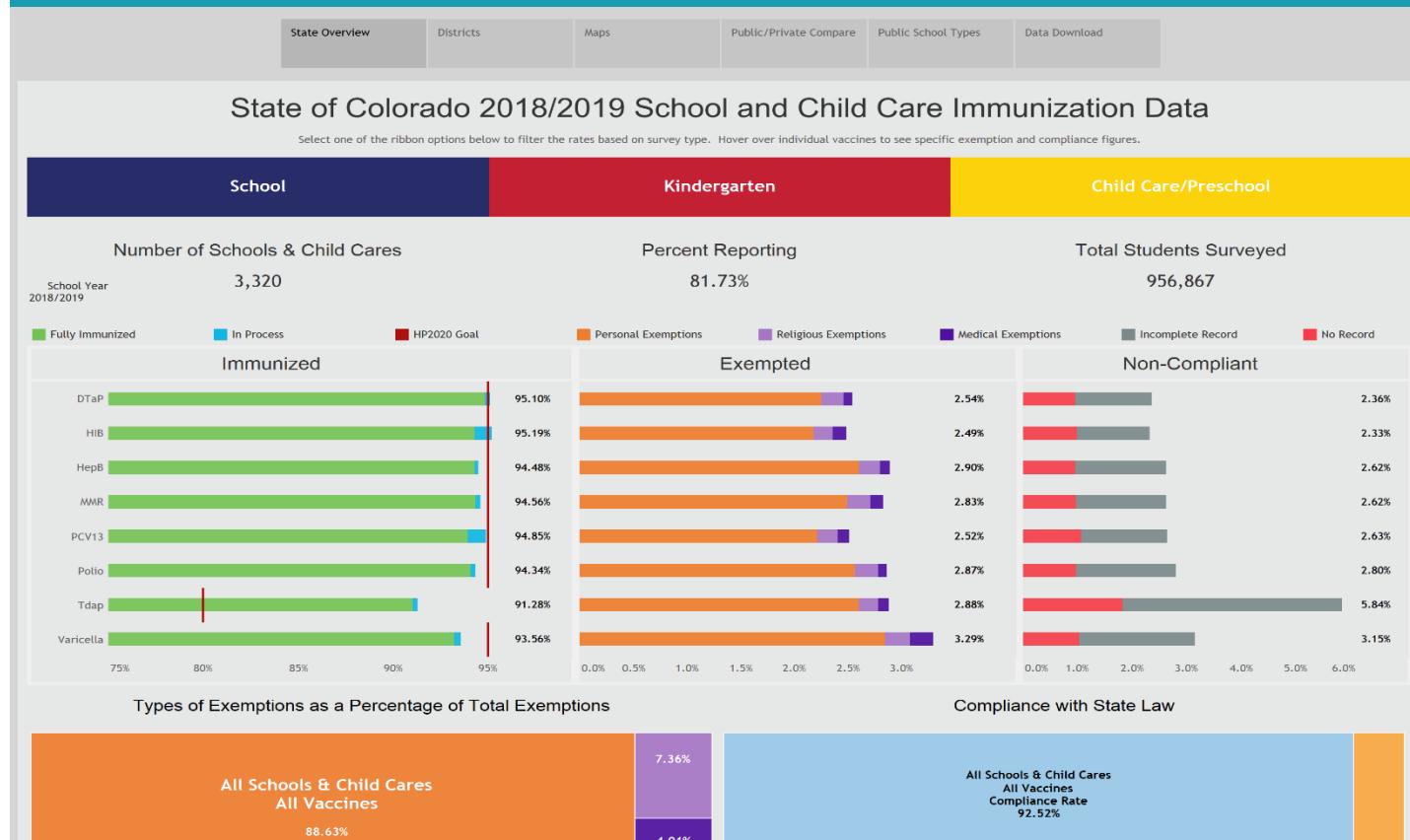
Colorado Immunization Coverage

- In 2017, National Immunization Survey (NIS) data showed Colorado had the **lowest kindergartner MMR vaccination rates among U.S. states**.
- Colorado consistently has among the **highest rate of nonmedical exemptions** in the US with **4.5% of kindergartners (almost 3,000 kids)** with a religious or personal belief exemption from school-required vaccines for the 2017-2018 school year.
- 2017-2018 kindergartner coverage with MMR vaccine was only **88.7%**, **well below the >93-95% levels required to protect a population against outbreaks of measles**.

New CO School and Child Care Immunization Coverage Data

- CO now has school and child care immunization coverage data for nearly **1 million children**
- Result of **HB14-1288** legislation and subsequent Board of Health Rules
- Self-reported to CDPHE annually
 - First reported in December 2016
 - Available to public at:
<https://www.colorado.gov/pacific/cdphe/school-and-child-care-immunization-data>

CDPHE 2018 School and Childcare Data



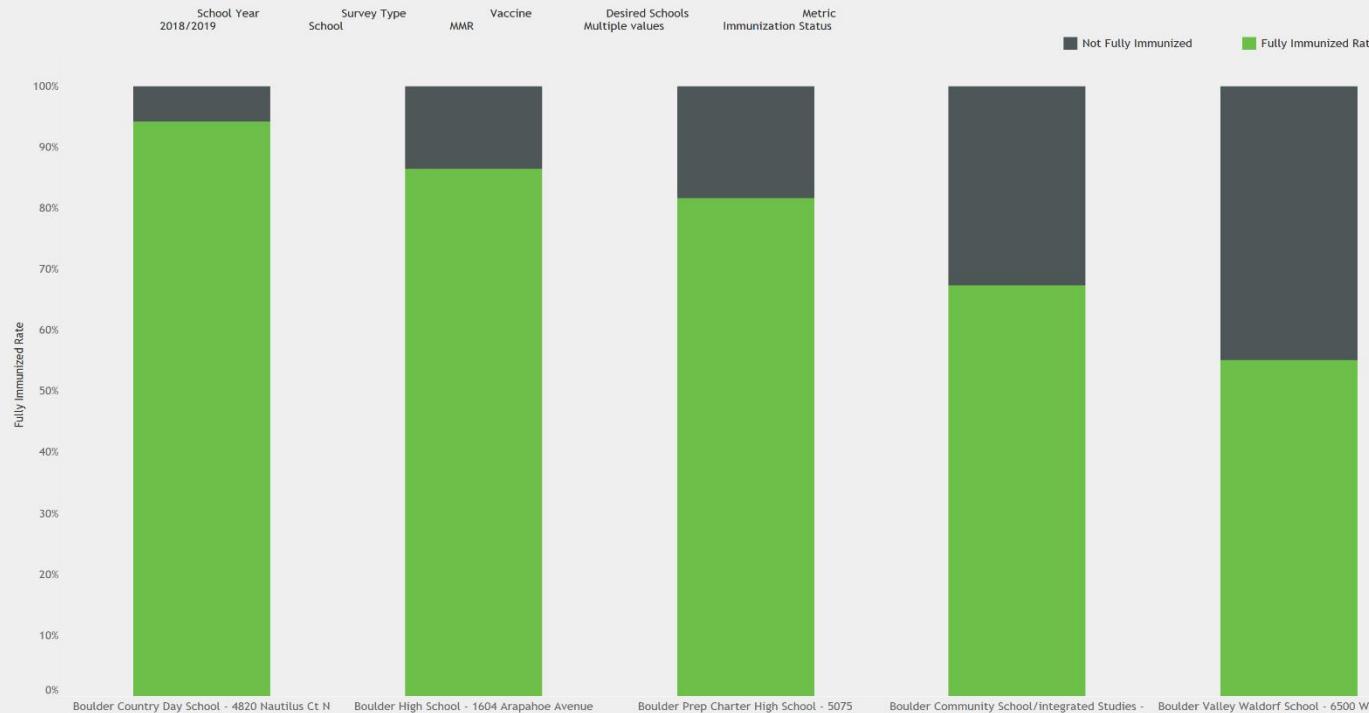
CDPHE 2018 School and Childcare Data

School & Child Care Rates

Compare Facilities

Reporting Map

Immunization Rate Comparison



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State of the State's Immunizations

A Report on Colorado's Vaccine Protection
for Its Communities

SEPTEMBER 2017

[Report Link](#)



COLORADO CHILDREN'S
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Legislative District Fact Sheets

IMMUNIZATION: 2018 FACTS AND FIGURES

Colorado House District 61



Overview

Vaccines are a safe and effective way to prevent the spread of disease and keep children healthy as they grow. Each year in the US, vaccines save approximately 33,000 lives, prevent 14 million cases of disease, and save \$9.9 billion in direct care costs.¹

Although the majority of parents vaccinate their children, newly-available data show there are gaps in vaccination coverage across the state of Colorado, putting our children and communities at risk for vaccine-preventable disease outbreaks. High vaccination coverage levels and coordinated efforts are critical to protecting public health.

Vaccine Exemptions in Colorado

Colorado is one of 18 states that allow parents to exempt their children from vaccines required for school or child care for philosophical reasons.

Compared with other states, Colorado has a relatively easy exemption process and one of the highest exemption rates. Research shows that states with lenient exemption policies have higher exemption rates, which can lead to increased risk for vaccine-preventable disease outbreaks.

Quick Facts



95 PERCENT of vaccine exemptions in Colorado are claimed for non-medical reasons.



50th Colorado ranks last in the Nation for kindergarten vaccination rates.²



4,719 COLORADO CHILDREN were hospitalized or went to an emergency room with vaccine-preventable diseases in 2015.³



\$35 MILLION There were more than \$35 million in hospital and emergency department charges for treating Colorado children for vaccine-preventable diseases in 2015.³

Up-to-Date Vaccination Rates by House District, 2016-17 School Year*



House Districts with the Highest and Lowest Up-to-Date Vaccination Rates*

House District 50	97.7%	House District 61	86.5%
House District 37	97.1%	House District 59	86.3%
House District 55	96.9%	House District 60	85.7%
House District 43	96.8%	House District 12	84.9%
House District 31	96.9%	House District 10	79.3%

*District-level immunization data has been made possible through the passage of HB 14-1289 and subsequent rulemaking which requires schools and licensed child care centers to annually report immunization and exemption rates to the Colorado Department of Public Health and Environment (CDPHE). To access the data, visit www.cdphe.state.co.us and search for school and child care immunization data.

TAKE ACTION

1. Support public policies that maintain and strengthen Colorado's exemption process.
2. Ensure appropriate funding of vaccine systems, such as the Colorado Immunization Information System (CIS).
3. Support transparency of depersonalized immunization data to inform the public about vaccination coverage and community protection from disease.
4. Support policies that increase access to vaccines.

IMMUNIZATION: 2018 FACTS AND FIGURES

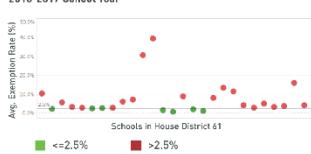
Colorado House District 61



How Is My District Doing?

- With an overall average up-to-date (UTD) vaccination rate of 86.5%, House District 61 ranks 61st out of 65 districts.
- In House District 61, 20 of 28 of schools have exemption rates **higher than 2.5%** including two schools with exemption rates **higher than 20%**.

Exemption Rates by School, House District 61, 2016-2017 School Year



What Does This Mean?

Vaccination is not just an individual choice. It takes an entire community to protect against serious disease. When enough people in a geographic area are immunized, they make it unlikely that a disease can spread in their community. Achieving a high enough level of vaccination coverage also provides protection for those who cannot be vaccinated for medical reasons or because they are still too young to receive vaccines. This is known as herd immunity or community protection. The federal government's Healthy People 2020 (HP 2020) goals take community protection into account when setting target levels.

While some school-level data reflect high vaccination rates, this is not consistent across Colorado. Pockets of un- and under-immunized children exist statewide, in both rural and urban areas, leaving these communities at risk for dangerous and costly diseases.

In addition to the health burden, the cost to investigate and prevent the spread of disease from just two Colorado measles cases in 2016 totaled \$68,192 in public funding.⁴ High vaccination rates protect Colorado's public health and save public dollars.

House District 61 Up-to-Date Rates by Vaccine, 2016-17 School Year

Disease/Vaccine	UTD Rate	HP 2020 Goals for Community Protection*
Measles MMR	88%	95%
Mumps MMR	88%	95%
Rubella MMR	88%	95%
Pertussis [Whooping Cough] DTaP	89%	95%
Diphtheria DTaP	89%	95%
Polio IPV	87%	95%
Varicella [Chickenpox] VAR	83%	95%

● Low Risk of Outbreak

● Moderate Risk of Outbreak

● High Risk of Outbreak

¹http://www.who.int/immunization/diseases/situation_reviews/childhood_diseases

²<http://www.cdphe.state.co.us/epidemic/annual/2015/schools/protection/13160646.htm>

³<http://www.cdphe.state.co.us/epidemic/annual/2015/schools/protection/13160646.htm>

⁴<http://www.cdphe.state.co.us/epidemic/annual/2015/schools/protection/13160646.htm>

For more information, visit childrensimmunization.org

13173 E. 14th Ave. 325 Aurora, CO 80015

coloradochildrensimmunization.org

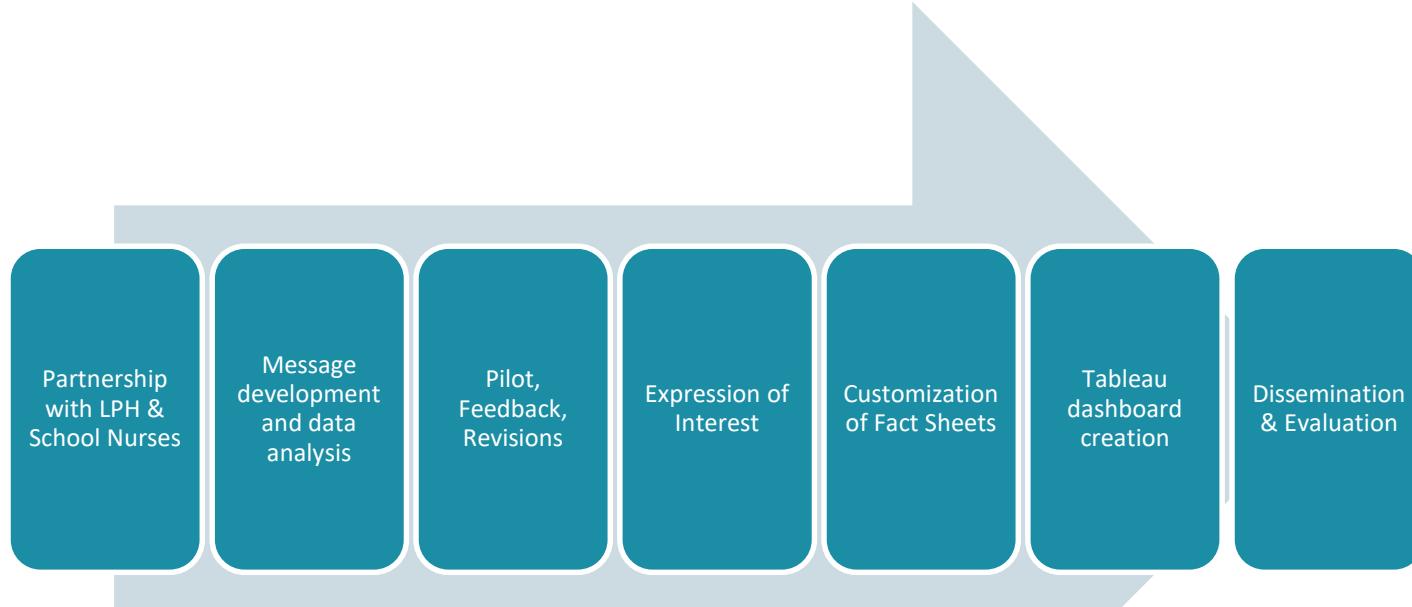
School District Fact Sheets

PURPOSE: To serve as an educational tool for school administrators and others by providing customized, district-specific context around CDPHE's school immunization data

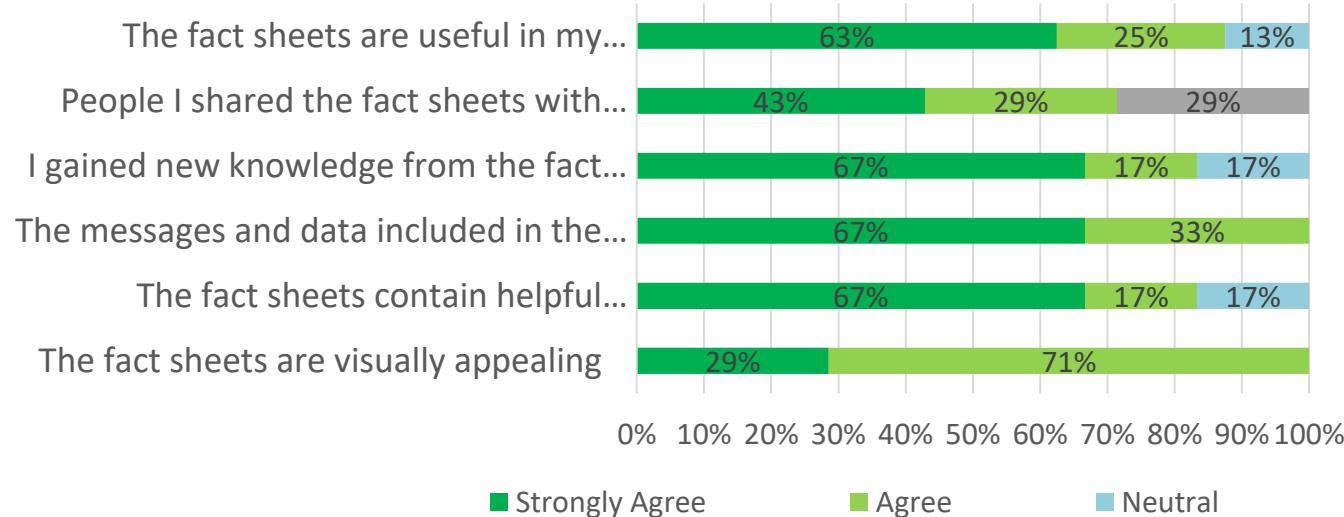
- How CO, districts and schools are performing
- Why vaccines and the data are important in the school setting
- How vaccination rates impact the health of their students and community
- How the audience can partner and strengthen IZ coverage, compliance with vaccine requirements and communication

AUDIENCE: School boards, administrators, principals, superintendents, school health service directors, school nurses/paras, school-based health centers, school health professional organizations, local public health and school policy stakeholders (parents as secondary audience)

Overview of Tool Development



Evaluation Survey Results



88% of participants stated they would like CCIC to create future updated fact sheets and dashboards

Fact Sheet Data

- Data Source: school district vaccination, exemption and compliance data from [Colorado Department of Public Health and the Environment](#)
- Selection/prioritization of data indicators
- Data analysis and organization
- Data challenges

IMMUNIZATION

in Colorado Schools (Statewide), 2018-2019



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 33,000 lives, prevent 14 million cases of disease, and save \$9.9 billion in direct healthcare costs.

All students and school staff deserve a healthy school environment that supports their wellbeing and builds a strong foundation for learning. It takes an entire community to protect against serious disease. Because diseases such as measles can spread rapidly, adequate vaccination coverage at the school level -- roughly 95% for each vaccine -- helps to protect the health of students, staff and others in the community, including those who cannot be vaccinated for medical reasons or because they are still too young to receive vaccines. This is known as herd immunity or community protection. With national measles cases reaching the highest number in nearly 30 years, it's crucial that we take steps to protect students and community members from preventable disease.

Did You Know?



49th Colorado ranks last among the 49 states that reported for kindergarten vaccination rates.



9,424 Colorado kids were hospitalized or went to an emergency room with vaccine-preventable diseases in 2017.



96% of vaccine exemptions in Colorado are claimed for non-medical reasons.



28,874 K-12 students entered Colorado schools in 2017-18 without protection from one or more vaccines.

Why It Matters

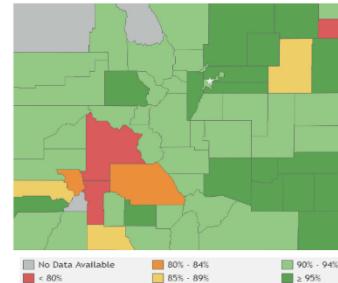
- While the large majority of Colorado parents vaccinate, data show there is variation in vaccination coverage across the state. Areas of low vaccination put children -- especially young children -- and communities at risk for outbreaks, which can spread rapidly in school settings.
- State and local vaccination requirements for school entry are important tools for maintaining high vaccination coverage rates and, in turn, lower rates of dangerous and costly diseases.
- Research shows that states with lenient exemption policies, like Colorado, have higher exemption rates, which can lead to increased risk for vaccine-preventable disease outbreaks.
- Low vaccination rates can be an indicator that families may need help understanding which vaccines their children should have and/or where they can conveniently access free or low-cost vaccines. Research shows vaccine hesitancy is generally not a barrier to vaccination among refugee and immigrant students.
- Ensuring high vaccination rates will reduce absenteeism linked to preventable disease in support of the Every Student Succeeds Act (ESSA).
- Research shows that schools with higher vaccination rates are more likely to have a school nurse supporting immunization efforts.

Vaccination Reporting Policy

Per Colorado law and Board of Health Rule, all licensed schools and child care centers are required to report their immunization and exemption rate information annually to the Colorado Department of Public Health and Environment (CDPHE) to be made publicly available online.

To access the school immunization data, visit www.covaxrates.org.

County Level Rates of K-12 Children Fully Immunized with MMR (measles-mumps-rubella), 2018-19



County-level MMR rates range from 68% - 99%.

This information can be viewed for each vaccine on the CDPHE school immunization data site.

Percentage of All Colorado Schools That Meet Healthy People 2020 Goals for Vaccination Coverage, 2018-19

Vaccine/Disease	All K-12 Schools
MMR (Measles, Mumps, Rubella)	51%
Varicella (Chickenpox)	39%
DTaP (Diphtheria, Tetanus, Pertussis)	58%
HepB (Hepatitis B)	51%
Polio	46%
*Tdap (Tetanus, Diphtheria, Pertussis)	47%

National Healthy People 2020 (HP 2020) goals are to reach 95% coverage for each vaccine (*except Tdap, which is 80%).

IMMUNIZATION

in Manzanola School District 3J, 2018-2019



COLORADO CHILDREN'S
IMMUNIZATION COALITION

How Is My District Doing?*

Total school district enrollment: 144 students

- The percent of students in Manzanola School District fully immunized for each vaccine is 95%.
- The exemption rate for all vaccines in Manzanola School District is 1.4%.
- In Manzanola School District, fewer than 10 students claimed an exemption for one or more vaccines.
- In Manzanola School District, fewer than 10 students have an incomplete or missing record.

What Does This Mean for Our Schools?

Vaccination is important to emergency response efforts and helps to prevent absenteeism, exclusions, and other societal and economic costs.

In the event of an outbreak, your school may be required to take measures to protect the student population or community at-large, such as excluding students. These lost days of school have impacts on a student's education and long-term success.

Highlighting Success:

The Otero County Health Department (OCHD) works closely with school districts in Crowley and Otero counties. Their mutual goal is to protect children and adolescents against vaccine-preventable diseases. As a result of their collaboration, for all schools located in their jurisdiction, immunization rates are high. In order to reduce any barriers that prevent individuals from being immunized, OCHD offers frequent immunization clinics at each office and works with the schools to set up on-site clinics as needed.

*These data include both public and private schools that reported data.

Percentage of Manzanola School District Students Fully Immunized By Vaccine, 2018-19*

Disease/Vaccine	Fully Immunized
Measles/ MMR	95%
Mumps/ MMR	95%
Rubella/ MMR	95%
Pertussis (Whooping Cough)/ DTaP	95%
Diphtheria/ DTaP	95%
Polio/ IPV	95%
Varicella (Chickenpox)/ VAR	95%

These levels of risk were determined using herd immunity thresholds for each disease in combination with the HP 2020 goals of 95%.

- Low Risk of Outbreak
- Moderate Risk of Outbreak
- High Risk of Outbreak

What We Can Do Together

 REMIND students, families and staff of the importance of on-time vaccination and school vaccine requirements.

 BUILD RELATIONSHIPS between school administrators, school nurses 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, such as supporting school-based health centers and vaccination clinics.

 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.

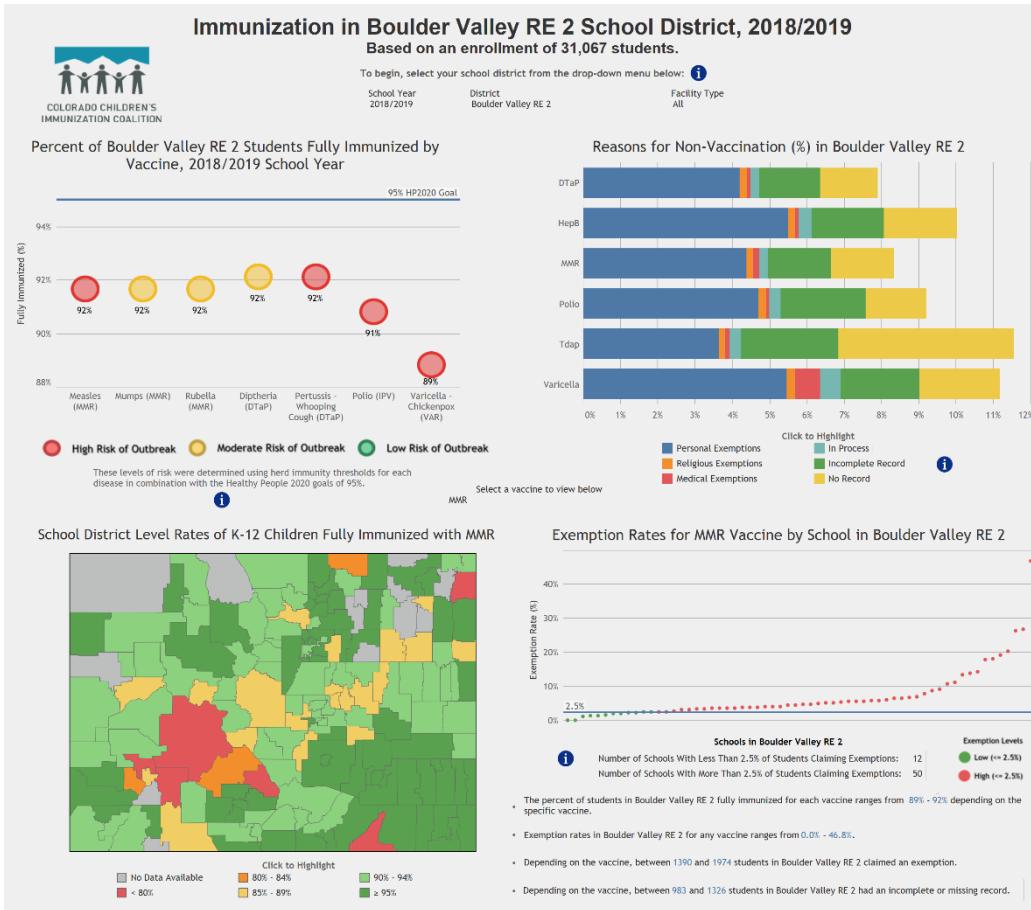
 SUPPORT POLICIES that help families access vaccines and ensure appropriate funding for school nurses and resources that save time and money for schools, such as the Colorado Immunization Information System (CIIS).

 ENCOURAGE families to provide accurate vaccination records rather than claim an exemption out of convenience. Assist families in locating their child's record.

To explore your district's data using online dashboards and to access related resources and references, visit childrensimmunization.org



COLORADO CHILDREN'S
IMMUNIZATION COALITION



https://cohealthhiv.dphe.state.co.us/t/DCEED_Public/views/CCICSchoolDistrictDashboards/SchoolDistrictImmunizationDashboard?rd2:id=1&isGuestRedirectFromVizportal=y&embed=y

Key Messages Tailored for the School Setting

All students and school staff members deserve a healthy school environment that supports their wellbeing and builds a strong foundation for learning. It takes an entire community to protect against serious disease. Because diseases such as measles can spread rapidly, adequate vaccination coverage at the school level -- roughly 95% for each vaccine -- helps to protect the health of students, staff and others in the community, including those who cannot be vaccinated for medical reasons or because they are still too young to receive vaccines. This is known as herd immunity or community protection.

Data show there is variation in vaccination coverage across the state. Areas of low vaccination put children -- especially young children -- and communities at risk for outbreaks, which can spread rapidly in school settings.

Research shows that states with lenient exemption policies, like Colorado, have higher exemption rates, which can lead to increased risk for vaccine-preventable disease outbreaks.

What Does This Mean for Our Schools?

Vaccination is important to emergency response efforts and helps to prevent absenteeism, exclusions, and other societal and economic costs.

In the event of an outbreak, your school may be required to take measures to protect the student population or community at-large, such as excluding students. These lost days of school have impacts on a student's education and long-term success.

Low vaccination rates can be an indicator that families may need help understanding which vaccines their children should have and/or where they can conveniently access free or low-cost vaccines.



COLORADO CHILDREN'S
IMMUNIZATION COALITION

Key Messages: How to Take Action

What We Can Do Together



REMIND students, families and staff of the importance of on-time vaccination and school vaccine requirements.



BUILD RELATIONSHIPS between school administrators, school nurses 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, such as supporting school-based health centers and vaccination clinics.



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.



SUPPORT POLICIES that help families access vaccines and ensure appropriate funding for school nurses and resources that save time and money for schools, such as the Colorado Immunization Information System (CIIS).



ENCOURAGE families to provide accurate vaccination records rather than claim an exemption out of convenience. Assist families in locating their child's record.

For 2018-19 fact sheets, we added a message on the importance of providing vaccination records rather than claiming an exemption

Custom Messages

Case in Point:

In 2017, 31 Boulder County students were diagnosed with pertussis (whooping cough) while enrolled in school, and five schools in Boulder County had more than one confirmed case of pertussis. Public health pertussis notification letters were distributed to 11 schools in the same school year.

Highlighting Success

Custer County School District C-1 and Custer County Public Health Agency work closely together to ensure the vaccination needs of the student community are met. Custer County Public Health Agency organizes free sports physicals for student athletes throughout the summer which is a great opportunity for teens and adolescents to catch up on their recommended vaccinations. Custer County School District attends school Monday-Thursday, and vaccination appointments can be made on Fridays, ensuring limited time missed from school for these visits.



Custom Messages

In the case of a measles outbreak, 3,429 students in St. Vrain Valley School District would need to be excluded from school for up to 21 days. This includes 76 students with medical exemptions, 255 students with religious exemptions, 1,473 students with personal belief exemptions, and 1,625 students with incomplete records, no records or are considered in process for the MMR vaccine.

Evaluation & Impact

TO DATE, THE SCHOOL DISTRICT IMMUNIZATION FACT SHEETS HAVE BEEN USED TO:

- Increase education, communication and coordination of efforts between local public health, school nurses and administrators, providers, families and community members
- Guide school district decisions to enforce policies already in place regarding students without up-to-date vaccines
- Compare rates across districts and collaborate with public health on efforts to improve immunization rates
- Guide stories for local newsletters, newspapers articles, and other media opportunities
- Share with the broader community through social media (i.e. Facebook)
- Inform discussion with the Board of Health, School Boards and state legislators
- Educate community members at a local health fair
- Help district strategic planning and emergency preparedness response efforts
- Support requests for hosting school immunization clinics to increase immunization rates and improve compliance with school immunization rules and regulations

Dissemination Strategies

- Individual Requests
- School Nurse Listserv
- CCIC Website & Newsletter
- Partner presentations
- CDPHE monthly LPHA call
- Colorado Association of School Nurses Conference
- CDPHE Letters to Schools ([NEW for 2019](#))

How-To Guide



SCHOOL DISTRICT IMMUNIZATION FACT SHEETS A How-To Guide for Utilizing this Resource

BACKGROUND

In 2018, the Colorado Children's Immunization Coalition piloted the creation of custom Colorado school district level immunization fact sheets using data from the 2017-2018 school year made publicly available by the Colorado Department of Public Health and Environment (CDPHE). This year, CCIC has again created fact sheets for all districts who reported immunization data to CDPHE for the 2018-19 school year. These fact sheets were initially created as a tool to provide context and help guide discussion and collaboration between school nurses, school administration and local public health on how to ensure vaccination coverage levels are high enough to protect students, staff and community members from serious, preventable disease. The fact sheets are also useful to share with parents, family members, providers, policymakers and the wider Colorado community.

TO DATE, THE SCHOOL DISTRICT IMMUNIZATION FACT SHEETS HAVE BEEN USED TO:

- Increase education, communication and coordination of efforts between local public health, school nurses and administrators, providers, families and community members
- Guide school district decisions to enforce policies already in place regarding students without up-to-date vaccines
- Compare rates across districts and collaborate with public health on efforts to improve immunization rates
- Guide stories for local newsletters, newspapers articles, and other media opportunities
- Share with the broader community through social media (i.e. Facebook)
- Inform discussion with the Board of Health, School Boards and state legislators
- Educate community members at a local health fair
- Help district strategic planning and emergency preparedness response efforts
- Support requests for hosting school immunization clinics to increase immunization rates and improve compliance with school immunization rules and regulations

CUSTOM DISTRICT-SPECIFIC MESSAGES

To highlight specific successes or cases of vaccine-preventable disease in a particular school district, local public health in some districts provided custom messages to be included on the fact sheets. If you would like a district-specific message included on your district's fact sheet, please contact ccicoffice@childrenscolorado.org.

Example custom messages provided by local public health to highlight successes in high performing districts:

Highlighting Success

The Otero County Health Department (OCHD) works closely with school districts in Crowley and Otero counties. Their mutual goal is to protect children and adolescents against vaccine-preventable diseases. As a result of their collaboration, for all schools located in their jurisdiction, immunization rates are high. In order to reduce any barriers that prevent individuals from being immunized, OCHD offers frequent immunization clinics at each office and works with the schools to set up on-site clinics as needed.

Highlighting Success

Strong work and diligence from school healthcare workers and support of school administrative staff along with local health care providers, community partners, and parental compliance have kept Calico City Schools on the right path to help prevent an outbreak from the diseases covered by these vaccines.

Example Case in Point messages:

Case in Point:

Recent Colorado and national cases and outbreaks of vaccine-preventable diseases (i.e. measles, mumps, influenza, whooping cough and chickenpox) highlight the importance of ensuring the children in Garfield County School District 16 are fully immunized so that they, and the entire community around them, are protected from serious illness. Between the years of 2013-2016, 47 Garfield County students were diagnosed with pertussis (whooping cough). There was at least one case of pertussis reported from Parachute to Carbondale; however, 75% of cases reported came from Carbondale and Glenwood Springs.

Case in Point:

Fremont County has had 59 reported cases of pertussis (whooping cough) since January 1, 2016. Of these cases, 26 were in a short time span in 2017 which prompted one child care facility to initiate closure for a short time to avoid further spread. Immunization rates continue to fall below what is needed to achieve herd immunity, which puts these communities at a higher risk for public outbreaks. Continued work from dedicated school health professionals and support from school administration, as well as compliance from parents, can change this.

Case in Point:

In 2017, 31 Boulder County students were diagnosed with pertussis (whooping cough) while enrolled in school, and 10 schools in Boulder County had more than one confirmed case of pertussis. Public health pertussis notification letters were distributed to 11 schools in the same school year.

ONLINE DASHBOARDS

To supplement the fact sheets, CCIC created interactive online data dashboards which allow users to view more detailed information about school immunization across Colorado, such as antigen-specific information and how vaccination coverage varies across schools within a district. Users can also compare data from the 2017-18 school year to data from the 2018-19 school year.

HELPING FAMILIES ACCESS VACCINES

For many families across Colorado, accessing and paying for vaccines for their children can prove challenging. As school and public health professionals, you can serve as a resource to help direct families to providers that offer free-or low-cost vaccines in their area, particularly [Vaccines for Children \(VFC\)](#) providers. You can find a list of VFC providers in Colorado through CDPHE's VFC provider finder tool at www.COvax4kids.org. More information on who is eligible for the VFC program can be found at <https://www.cdc.gov/vaccines/programs/vfc/index.html>.

OTHER HELPFUL RESOURCES

Please visit www.COSchoolZ.org for a listing of additional relevant resources you may find helpful.



COLORADO CHILDREN'S
IMMUNIZATION COALITION

School District IZ Fact Sheets Online

School District Immunization Fact Sheets

The 2018-19 School District Immunization Fact Sheets and supplemental online dashboards provide local level data on childhood immunization coverage to help each Colorado school district understand its level of community protection and highlight successes and opportunities for improvement. Additionally, each fact sheet provides an overview of statewide Colorado vaccination and vaccine-preventable disease information, information on the importance of vaccination, and ways schools, public health and the community can partner to protect against vaccine-preventable disease.

Why Is School Immunization Important?

All students and school staff members deserve a healthy school environment that supports their well-being and builds a strong foundation for learning. It takes an entire community to protect against serious disease. Because diseases such as measles can spread rapidly, adequate vaccination coverage at the school level -- roughly 95% for each vaccine -- helps to protect the health of students, staff and others in the community, including those who cannot be vaccinated for medical reasons or because they are still too young to receive vaccines.

Ensuring adequate vaccination coverage and compliance with school vaccination policy is also important to emergency response efforts and helps to prevent absenteeism, exclusions, and other societal and economic costs.

How Is My School District Doing?

To view your district's immunization and exemption coverage data, visit the interactive dashboard below. (Note: This dashboard allows you to also view school district immunization data from the 2017-2018 school year.)

Colorado School District Immunization Data Dashboard (2018-2019)

2018-2019 School District Immunization Fact Sheets

If you would like a customized, district-specific message included on your school district's fact sheet, please [contact us](#). To view sample customized messages and access additional resources, view the [Fact Sheet How-To Guide](#).

- Academy School District 20
- Adams-Arapahoe 28J School District

Coalition Building

Community Outreach and Awareness

Public Policy

Provider Education

Free and Low-Cost Vaccines

Data Translation and Action

School District Immunization Fact Sheets



Get answers to
your top vaccine
questions and
more.

52.7 PERCENT

Immunization helps to protect our youngest and most vulnerable community members. **52.7 PERCENT** of Colorado children hospitalized with vaccine-preventable disease are four years of age or younger.



Media Response

Child vaccination rate low in some areas of the Roaring Fork Valley

News | April 16, 2019

Alex Zorn and Thomas Phippen
Post Independent



exemption rate information annually to the Colorado Department of Public Health and Environment (CDPHE) to be made publicly available online.

Garfield Re-2 policy states that "no student may attend or continue to attend any school in the district without meeting the legal requirements of immunization against disease unless the student has a valid exemption for health, religious, personal or other reason as provided by law."

Theresa Hamilton, Garfield Re-2 director of communications, said the staff does an exceptional job of ensuring that families are up-to-date and informed on their child's immunization schedule.

"[The district] is very good at helping support parents at being in compliance of state statute," she added.

While the Re-2 school district showed a low risk of outbreak for all of the state required vaccines, Roaring Fork's risk was considered to be moderate for many of the diseases.

"It's our stance that it's better to be immunized than not immunized," Roaring Fork District Superintendent Rob Stein said.

Stein said that, in the past year, the district has improved outreach to parents, telling them to gather the appropriate forms proving immunization or exemptions before students start school.

"We've probably improved compliance with just the paperwork part. Once someone tells us they're opting out, though, that's where our efforts stop," Stein said.

Depending on the vaccine, the number of Roaring Fork School District students fully immunized ranged from 91 percent to 93 percent for the area, according to health officials.

Despite being similarly sized in terms of student population, the data shows that 209 students in the Roaring Fork School District are exempt from one or more school-required vaccines, while the Garfield School District Re-2 has 108 students exempt.

COMPLIANCE A STATEWIDE ISSUE

Colorado has the lowest kindergarten vaccination rate in the country at 88.7 percent. The state is one of 17 states that allow personal (as opposed to medical or religious) exemptions to immunization.

To confront that, Colorado state Rep. Kyle Mullica, a Northglenn Democrat, proposed a House Bill 1312 to tighten the process for getting personal exemptions and improve data collection.

<https://www.postindependent.com/news/child-vaccination-rate-low-in-some-areas-of-the-roaring-fork-valley/>

Front Porch

Mapleton, Park Hill, Lower Montbello, Mayfair and East Colfax

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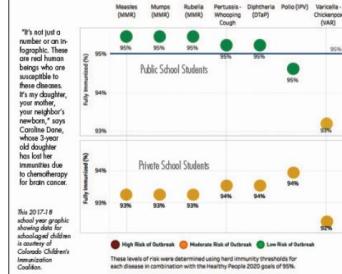
Vaccinations: Your Choice, Others' Children

April 1, 2019 | Marisa Bill, Ph.D. | Community Issues, Health & Wellness, Kids



Thousands of rigorous safety and efficacy. Dr. Crooks has read many of these, and did not hesitate to vaccinate either or her children, confident that no link exists between vaccines and autism. For Dr. Crooks, "Doing research is not looking at a website. That is not equivalent to the research a scientist does... A well-informed belief is open to change based on new evidence."

Percent of Denver Students Fully Immunized By Vaccine



Parents want to do what's best for their child

Drs. Bernard, Crooks and O'Leary appreciate that parents who oppose or hesitate to vaccinate are all coming from a place of love and wanting to do what's best for their children. Dr. O'Leary's research considers how to address the barriers to vaccination. For pediatricians who have built up rapport and trust with the families they serve, taking a little more time at a well child visit to allay concerns can be invaluable.

<https://frontporchne.com/article/vaccinations-choice-others/>



Media Response

Immunization Resources

[COVax4Kids.org](https://www.covax4kids.org) Find out if your kids are eligible for low- or no-cost vaccines and find a provider who gives them.

[COVaxRates.org](https://www.covaxrates.org) Look up vaccination and exemption rates for schools and child care facilities in Colorado.

[COVaxRecords.org](https://www.covaxrecords.org) Find out how to request vaccination records for your children.

[COSchoolIZ.org](https://coschooliz.org) Vaccination fact sheets for more than 50 Colorado's school districts from the Colorado Children's Immunization Coalition

[SpreadTheVaxFacts.com](https://www.spreadthewaxfacts.com) Provides information about vaccines with advice from Colorado doctors who also are parents.



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NEWSLETTERS

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BUILDING IMMUNITY

'These outbreaks are a monster to control:' Amid measles worries, here's what parents need to know about Colorado's vaccination rules

BY ANN SCHIMKE - AUGUST 5, 2019



<https://www.chalkbeat.org/posts/co/2019/08/05/these-outbreaks-are-a-monster-to-control-amid-measles-worries-heres-what-parents-need-to-know-about-colorados-vaccination-rules/>

2018/19 Fact Sheet Reach

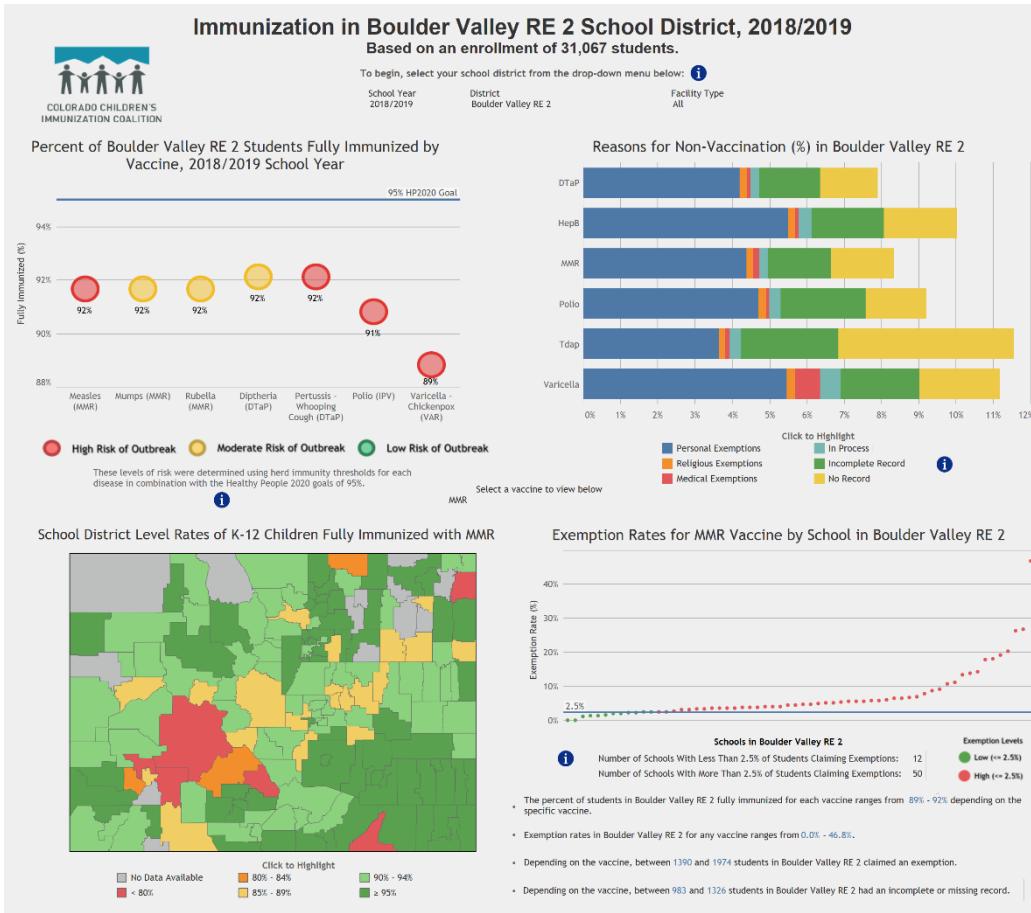
- **298 people** visited the webpage **562 times** between July 22 and September 22, 2019
 - 223 of these views came directly from users entering the URL into their browser
- On average, visitors spend **2 minutes and 40 seconds** on the page (the average for our website is 1 minute and 24 seconds)
- The webpage has been visited from **10 states + DC and 42 Colorado cities**

Next Steps

- Continue to evaluate and assess impact, adaptations for future
- Pilot a project recognizing schools with high immunization rates
- Identify schools/districts that need resources and support
- Expand Resources for Child Care

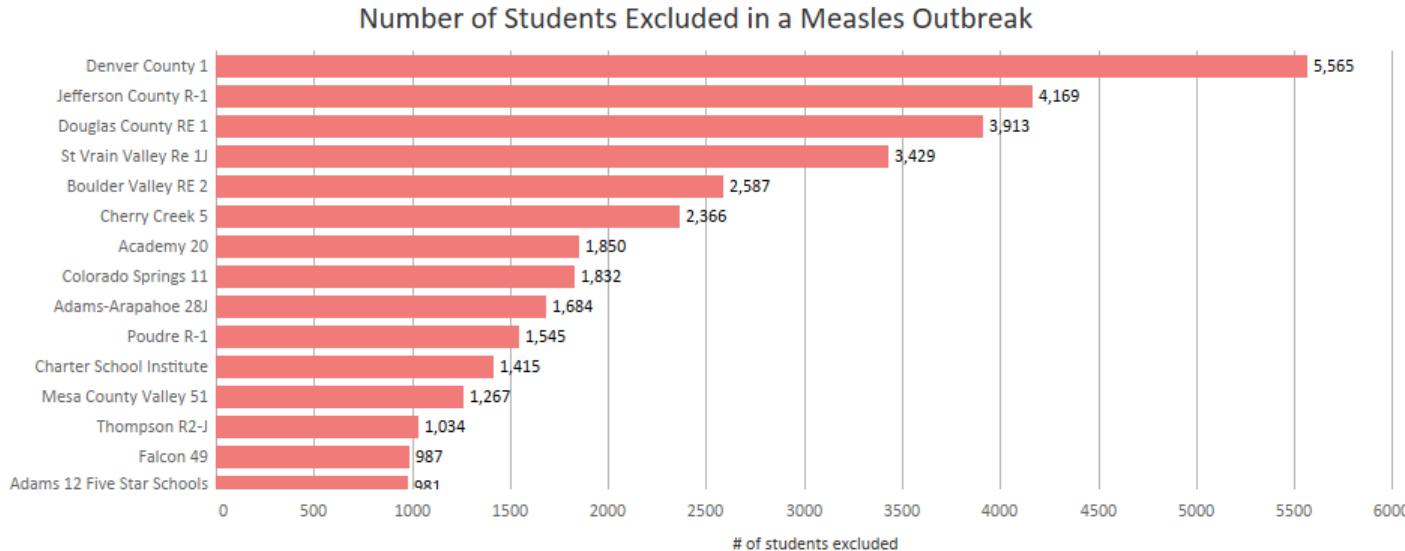
CCIC School Immunization Data Resources

- [CCIC School District Immunization Fact Sheets](#)
- [Colorado School District Immunization Data Dashboard \(2018-2019\)](#)

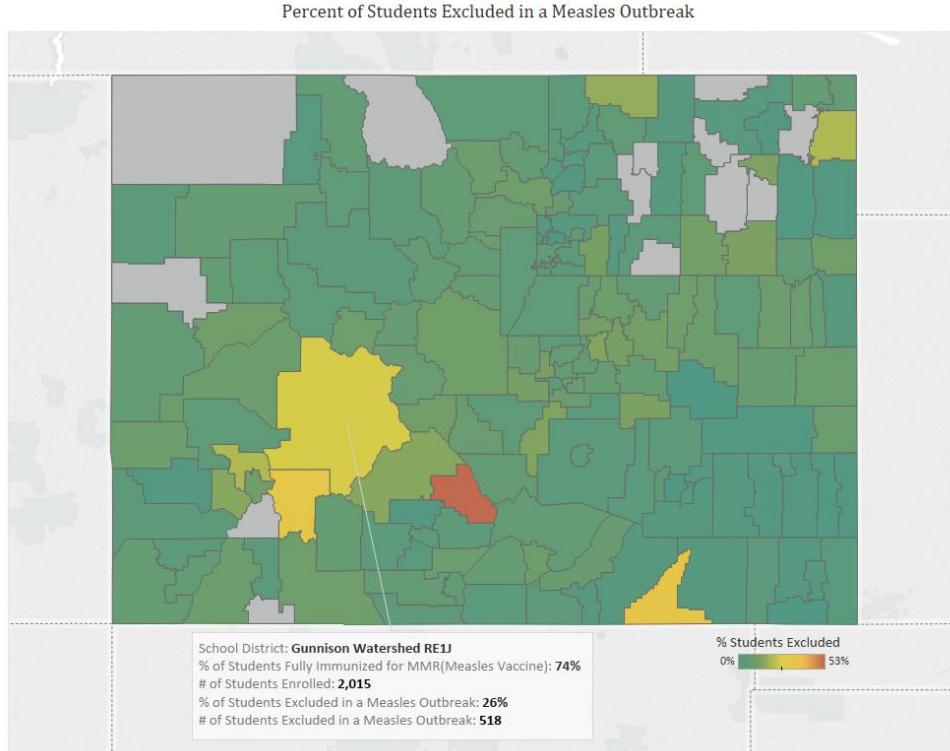


https://cohealthhiv.dphe.state.co.us/t/DCEED_Public/views/CCICSchoolDistrictDashboards/SchoolDistrictImmunizationDashboard?rd2:id=1&isGuestRedirectFromVizportal=y&embed=y

Potential # Students Excluded by School District in Measles Outbreak

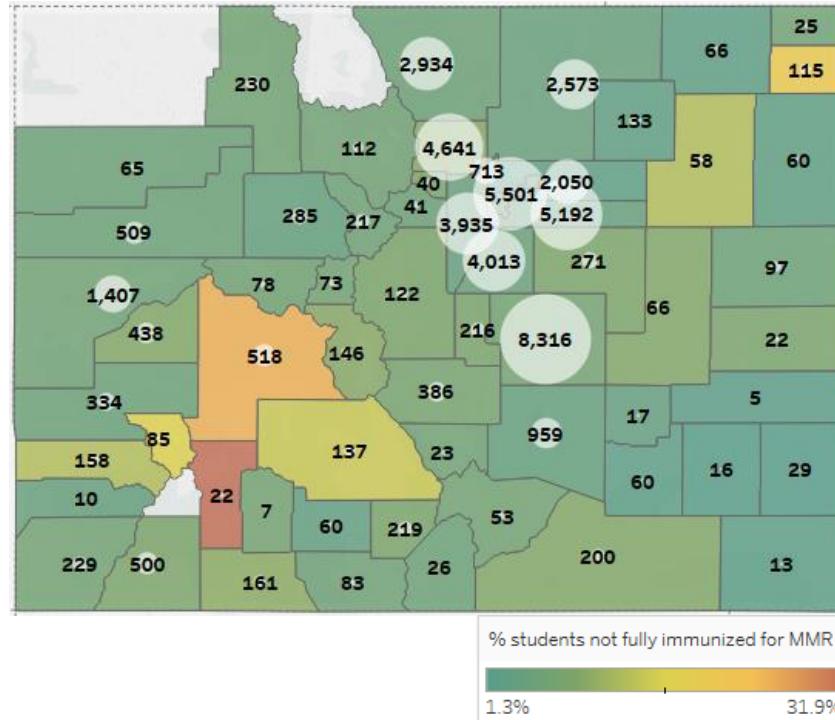


Map of Percent of Potential Measles Exclusions by District



**School MMR
exemption rates
range from 1.3% to
31.9% at the county
level**

- High county coverage rates does not mean protection for all
- Across Colorado, nearly 50,000 students are not fully immunized against measles
- As of August 22, 2019, a total of 1,215 cases of measles have been confirmed in the US – the highest number since 1992
 - US measles elimination status in jeopardy
 - 125 hospitalizations; ~50% of those have experienced complications
 - Most cases have occurred in people who are not vaccinated



Acknowledgements

- Additional CCIC Team Members
 - Elizabeth Abbott
 - Katie Waters
 - Stephanie Wasserman
 - Meredith Preece
- Tavio Pirocchi and CDPHE
- Local Public Health Departments and School Nurses

Additional School IZ Resources

- [CDPHE Back 2 School Partner Communications Toolkit](#)
- [School Nurse Grant Program \(HB19-1203\)](#)
- [CO School-Located Vaccination Clinic Toolkit](#)
 - [NIC poster](#)
- [Proposed AmeriCorps Co-Immunity Corps Program](#)
- [CDC collaborative agreement: Addressing Immunization Barriers among Pregnant Women and Children on Medicaid](#)
 - Community of Practice exploring strategies such as school vaccination to fill gaps in vaccine coverage among children on Medicaid
- [School Nurse Training on Refugee and Immigrant Immunization](#)
- [Impact of publicly available vaccination rates on parental school and child care choice](#)
- [2016 CCIC Provider Education: Back-to-School Immunization Strategies](#)
- [CDPHE Find a VFC Provider Tool](#)
- [Vaccine Preventable Diseases in Colorado Report](#)
- [Denver In-School Immunization Program Summary, 2018-19](#)



Thank You!

Kristin.Mlynarczyk@childrenscolorado.org
Emily.Clancy@childrenscolorado.org

www.childrensimmunization.org
[Facebook.com/ImmunizeCOKids](https://www.facebook.com/ImmunizeCOKids)
[Twitter.com/ImmunizeCOKids](https://twitter.com/ImmunizeCOKids)

SCCIDR: Reporting, Results & Best Practices

September 25 2019



TAVIO PIROCCHI, MA
IMMUNIZATION DATA ANALYST



COLORADO

**Disease Control & Environmental
Epidemiology Division**

Department of Public Health & Environment

What We Will Be Covering



- Reminders & common term review
- Kindergarten MMR Rates: The Push to 90%
- Live demo of how to report
 - It's fake data but hey the process is real!
- Data visualization site tour
- Questions/Comments!

School & Child Care Immunization Survey



- It's that time of the year again!
 - Reporting between: Oct 1 – Dec 1 2019
 - All Licensed Child Cares & Schools (private & public) are required to report their immunization data.
 - Login information and reporting site have not changed since last year, your previous credentials will still be working.
 - ✖ NO need to register for an additional account, if you forgot your password use the password reset option.
 - ✖ If you don't have an account, you can request access and create an account or email me (contact info at the end) and I'll help get one set up.

In Process Students



- **What is this “In Process” category?**

- Within fourteen days after receiving direct personal notification that the certificate is not up-to date according to the requirements of the state board of health, the parent or emancipated student submits documentation that the next required immunization has been given and a signed written plan for obtaining the remaining required immunizations. The scheduling of immunizations in the written plan shall follow medically recommended minimum intervals consistent with the U.S. Public Health Service Advisory Committee on Immunization Practices. If the student does not fulfill the plan, the student shall be suspended or expelled from school for non-compliance as noted in Section 25-4-907, C.R.S. if the next dose is not medically indicated within fourteen days, then the medically approved minimum intervals would apply.

In Process Students



- What isn't this “In Process” category?
 - A category for...
 - students you “think” will get vaccinated.
 - boosting compliance rates.
 - students who have not completed a vaccine series but the shot record looks like they will.
 - Students with a partially complete series and no plan to finish.
 - Recording student’s indication to get vaccinated.
 - Unless they are emancipated!

Incomplete & No Record



- What is this “Incomplete Record” category?
 - A child is placed in this category for a specific vaccine when the certificate of immunization exists but contains no information about a given vaccine, i.e. the certificate incomplete or when a child is partially complete for a vaccine series with no signed plan to finish (In Process).
 - Ex: No HepB shots are recorded on the certificate of immunization, but the remaining required vaccines are all up to date.
 - HepB – incomplete record
 - Remaining vaccines – up to date
 - Student not compliant in the “School Overall Immunization Status” Section of our survey.
- What is the difference between “Incomplete Record” and “No Record”?
 - No Record is used when there is no certificate of immunization present of a child.
 - Logically the same number of no record entries should exist for all vaccines.
 - There was no validation around this for the 18/19 school year.

The Big Push This Year: MMR in Kindergartens



- Governor Polis has made it a priority to increase MMR rates in kindergarten students to 90% for this reporting period.
 - This is a difficult undertaking but not impossible!
 - ✖ Since the inception of the kindergarten survey from the CDC, there have been 12 instances where a state has seen the same percent increase the governor's goal requires.
 - One of them was Colorado!
 - We can do it again too!

How Can You Help Meet 90% MMR Rates?



- We know you have a lot of students and we should put equitable focus on everyone, but meeting this goal might require more attention on one group than the other.
 - Sending letters to parents, keeping track of non compliant students and helping students catch up on immunizations are not small undertakings but if we limit it to one grade and one vaccine the workload is significantly decreased.
 - If you get updated vaccination data, change the entry before the deadline!
 - ✖ Don't have to update for anything else besides Kindergarten MMR if you don't want to
 - We will be reaching out as submissions come in to inquire about low kindergarten MMR up to date rates or high incomplete/no record rates.

Links

- SCCIDR Reporting Website
- Previous Years visualizations

<https://www.healthinformatics.dphe.state.co.us/#>

<https://www.colorado.gov/pacific/cdphe/school-and-child-care-immunization-data>

Contact



- Please email me with any questions, concerns, thoughts, challenges, etc.
 - If you don't reach out, we can't help you!

Tavio Pirocchi

ottavio.pirocchi@state.co.us - Preferred

303-692-2616