

# Colorado School Immunizations: Working Together to Protect Students' Health

Colorado Immunization Section  
Colorado Department of Public Health & Environment  
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Schools and Community



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# Presentation Outline

- Required immunizations for Child Care and Kindergarten Entry
- CIIS and Kindergarten Assessment
- Required immunizations for 6th through 12<sup>th</sup> grade
- School Immunization Compliance
  - Certificate of Immunization
  - Exemptions
  - In Process
- Board of Health Workgroup Process
- Relationship Building & Addressing Parent Concerns
- IZ Resources
- CIIS



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# School Required Vaccines Child Care Settings



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# Immunization Quick Reference 2014-15

## Immunization Chart for Required vaccines (Child Care, Preschool & K-Entry)

Age of Child	# of required doses <b>DT, DTP, or DTaP</b> Diphtheria, Tetanus Pertussis	# of required doses <b>Polio</b> Polio	# of required doses <b>MMR</b> Measles Mumps Rubella	# of required doses <b>Hib</b> Haemophilus influenzae type b	# of required doses <b>Hep B</b> Hepatitis B	# of required doses <b>Varicella</b> Chickenpox	# of required doses <b>PCV7 or PCV13</b> Pneumococcal Disease
< 4 mos.							
by 4 mos.	1	1		1	1		1
by 6 mos.	2	2		2	2		2
by 8 mos.	2	2		2	2		3/2
by 12 mos.	3	2		4/3/2♥	2		3/2
by 15 mos.	3	2	1	4/3/2/1♥	2	1*	4/3/2
by 19 mos.	4	3	1	4/3/2/1♥	3	1*	4/3/2
by 2 years	4	3	1	4/3/2/1♥	3	1*	4/3/2/1
by 3 years	4	3	1	4/3/2/1♥	3	1*	4/3/2/1
by 4 years	4	3	1	4/3/2/1♥	3	1*	4/3/2/1
K-Entry	5/4♦	4/3♣	2		3	2*	



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# Kindergarten IZ Rates

How is Colorado doing?



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# Immunization School Survey Assessment (ISSA)

- Annual Survey Conducted To Assess Immunization Rates of Kindergartners
- Methodology
  - No longer collect personally identifiable information (FERPA “friendly”)
  - New Web based data application
  - Collaborate with school nurses to collect data
- 300 Schools are Randomly Selected to Participate in the annual Survey
  - Selected schools are typically notified in January (350 Kids)
  - Trainings are provided



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# Immunization School Survey Assessment (ISSA)

- Random Sample – critical to maintain Data Integrity
  - No substituting the immunization record from another student even if they are not in compliance or have claimed exemptions
  - Submitting the data on the selected student is the only valid way to get a valid picture of school immunizations in Colorado
- Keeping Immunization Records Up To Date provides accurate data



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# 2012-13 Kindergarten Immunization Rates

Age	Vaccine	Rate and CI	HP2020 Objectives
Kindergartners	5 DTaP	82.9 (78.5-86.7)	Did Not Meet
	4 Polio	88.6 (84.8-91.7)	Did Not Meet
	2 MMR	85.7 (81.6-89.2)	Did Not Meet
	3 Hepatitis B	94.3 (91.3-96.5)	Statistically Did Not Meet
	2 Varicella	84.6 (80.4-88.2)	Did Not Meet



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# School Required Vaccines K through 12<sup>th</sup> grades



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# Vaccines for Kindergarten Entry

- 3 Hep B
- 5 DTaP (unless 4<sup>th</sup> dose is given on or after the 4<sup>th</sup> birthday)  
**2013: 4 month interval between dose 3 and 4 is acceptable**  
(previously a 6 month interval was required)
- 4 Polio (unless 3<sup>rd</sup> dose given on or after 4<sup>th</sup> birthday)
- 2 MMR ( **if single antigen given, 2013: 1 dose Rubella acceptable**)
- 2 Varicella

(The intervals between doses can be found in the BOH rules under the Table 1 footnotes. Varicella doses found in Table 2)



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# Vaccines 6<sup>th</sup> thru 12<sup>th</sup> grades

- Hep B – 3 doses (2 dose series for 11 – 15 yr olds) \*
- Tdap - If a student, 7 yrs of age or older, did not receive a full DTaP series they must have evidence of 3 appropriately spaced tetanus/diphtheria containing vaccines (DTaP, DT, Td, Tdap).
  - **2013: The administration of Tdap to complete this 3 dose series, will meet the Tdap requirement for 6<sup>th</sup> through 12<sup>th</sup> grades.**



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# Vaccines 6<sup>th</sup> thru 12<sup>th</sup> grades

- 4 doses Polio (A fourth dose is not necessary if the third dose was administered at age 4 years or older and at least 6 months after the previous dose). **Note:** Students who were series complete before 7/1/09, have met the polio requirement.
- 2 doses MMR (or if single antigen given, 1 dose of Rubella meets the requirement).
- 2 Varicella – K through 7<sup>th</sup> grade
- 1 Varicella - 8<sup>th</sup> through 12<sup>th</sup> grades



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# Vaccines 6<sup>th</sup> thru 12<sup>th</sup> Grades

- 1 dose Tdap required for students 11 -12 yrs of age or at 6<sup>th</sup> grade entry.
- **There is no interval between Td and any tetanus & diphtheria containing vaccine (including DTaP)**

ACIP Recommended Immunization Schedule for persons aged 0 through 18 years – 2013

**Tdap can be administered regardless of the interval since the last tetanus and diphtheria toxoid-containing vaccine**



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# 2012 NIS-Teen Immunization Rates

Age	Vaccine	Rate and CI	HP2020 Objectives
Teens – 13 to 17 years	≥1 Tdap	93.2 (89.9-96.7)	Met and exceeded
	≥1 Meningococcal	73.2 (66.9-79.8)	Did Not Meet
	≥3 HPV	38.0 (26.8-49.2)	Did Not Meet



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# What Constitutes School IZ Compliance?

- Certificate of Immunization listing all required school immunizations
- Appropriate exemption signed and placed in student file
- “In process” status



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# Certificate of Immunization

- All students must have a CI in their school record.
- A student is in compliance if they have received all required immunizations for their age/grade.



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# Colorado Exemptions

- **Medical**

(Requires signature by physician or APN)

- **Religious**

(Requires signature by parent/guardian)

- **Personal Belief**

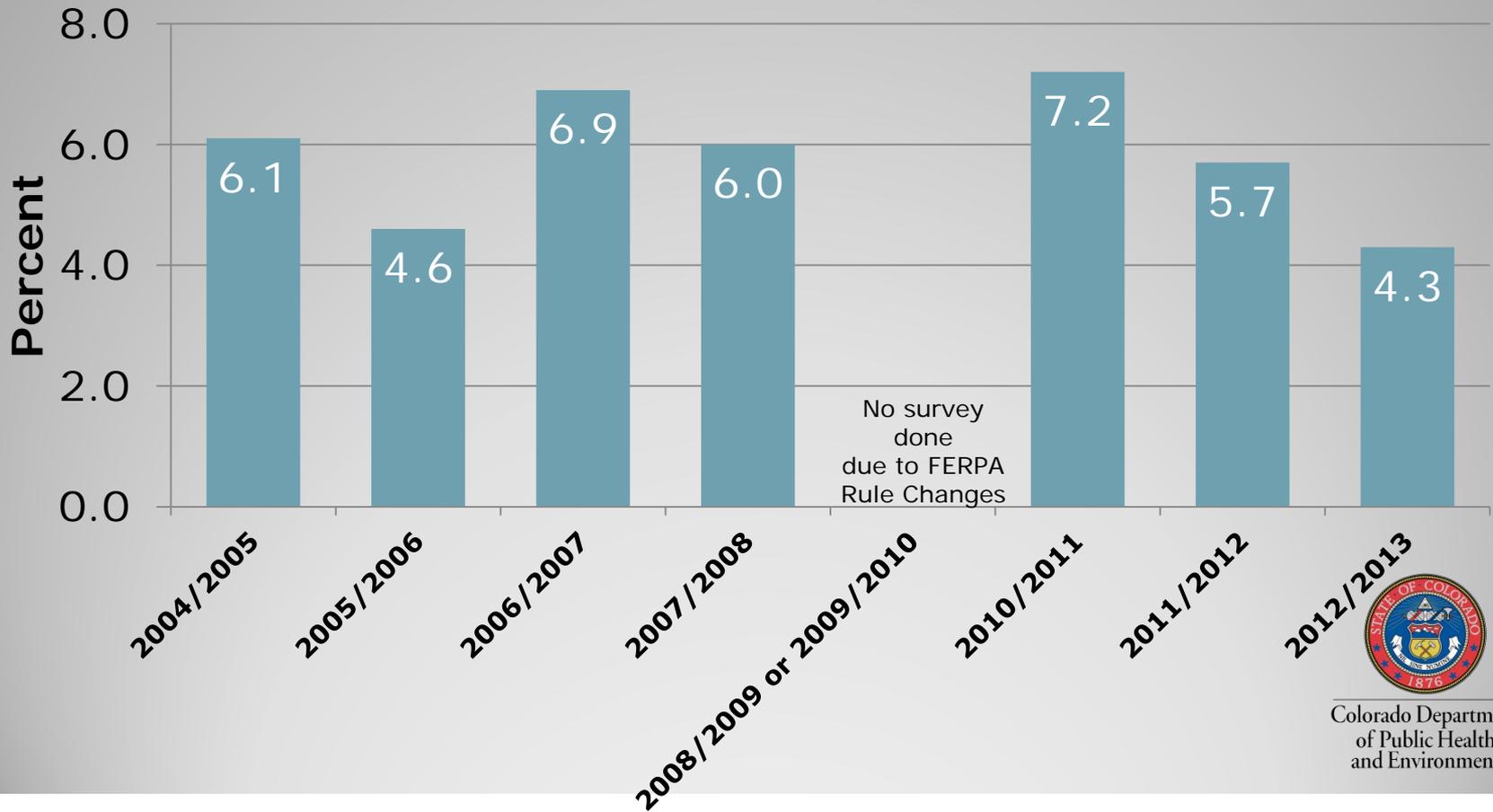
(Requires signature by parent/guardian)

- Colorado is looking at a more “meaningful” approach to the signing of exemptions in the future.



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# Colorado School Survey Exemption Rate Across Years, 2004/2005 through 2012/2013



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# In Process

- Within 14 days after receiving direct personal notification that the certificate of Immunization is not up to date, the student is to provide documentation that the next required immunization(s) has been given and/or a plan to receive the required immunization(s) will occur.



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# School Required Immunizations: Some Basic Rules

- No record, no attendance
- In Process: The parent has 14 days after notification to receive the shot(s) or to make a plan to receive the shots(s)
- Exemptions (medical, personal, religious)  
(Must have a HCP or parent signature)
- All students must have on file an official Certificate of Immunization
- McKinney/Vento Act – No homeless (indigent) child will be denied school attendance



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# How are School Required Vaccines Determined?



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# Board of Health Work Group

- **Participants** - provide well rounded & varied perspectives (Public Health, School Nurses, Child Care Nurse Consultant, Physicians, Coalitions)
- **Goal of the Work Group** - to assess the need for additional vaccines as well as rule changes based on epidemiological evidence
- **Convenes** – Meet annually to discuss school immunization requirements/changes prior to presentation before the BOH



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# 2014 BOH Workgroup

- Review for needed clarification of language
  - Example – clean up of Polio requirement of 18+ to align with ACIP
- Consider meningococcal vaccine requirement



# Relationship Building

# Essential Relationships

- Partnerships between Schools, Nurses, Parents & School Officials are critical for improved immunization rates
- Nurses responsible for making sure student immunization records are up to date
- Physicians responsible for vaccinating according to the ACIP immunization schedule
- Parents responsible for maintaining school compliance through required immunizations or signing of exemptions
- School Officials responsible for excluding kids who are not compliant... this is the law!



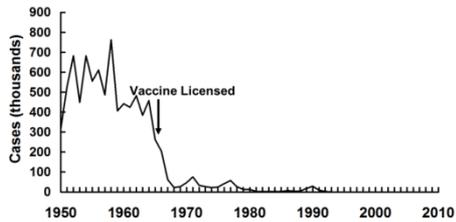
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# Addressing Parent's Concerns

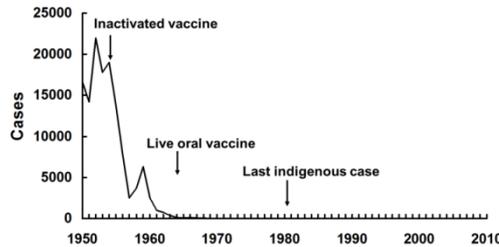
# Evidence of Decline of Diseases

**Measles - United States, 1950-2010**



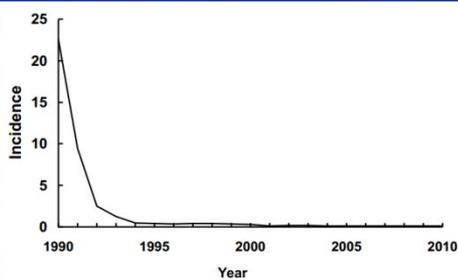
Source: National Notifiable Disease Surveillance System, CDC

**Poliomyelitis—United States, 1950-2010**



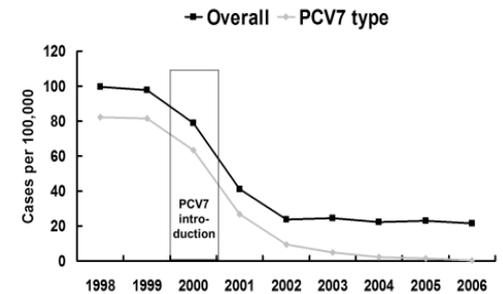
Source: National Notifiable Disease Surveillance System, CDC

**Incidence\* of Invasive Hib Disease, 1990-2010**

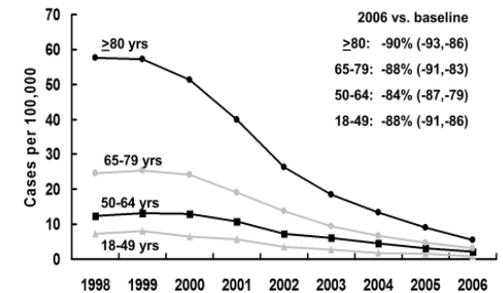


\*Rate per 100,000 children <5 years of age

**Direct Effect of Vaccination: Invasive Pneumococcal Disease Among Children <5 Years of Age, 1998/99-2006**



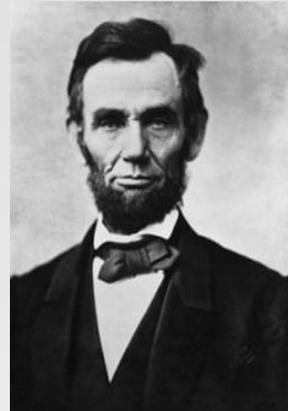
**Rates of PCV7-type Invasive Pneumococcal Disease among Adults, U.S., 1998/99-2006**



CDC, unpublished data 2008

# Vaccine Misconceptions

- Overloaded Immune System
- Natural Immunity is Better
- Disappeared Diseases
- Vaccines Increase Risk of Disease
- Flu Shot Causes the Flu
- Vaccines Cause Autism
- Mercury in Vaccines



“Don’t believe everything you read on the Internet just because there’s a picture with a quote next to it.”

—Abraham Lincoln



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# Immunization Resources

# Immunization Websites

- [www.ColoradoImmunizations.com](http://www.ColoradoImmunizations.com)

(The “Schools” page is located by clicking on the link “School Immunizations” on the navigation bar on the left side of the home page)

- [www.ImmunizeForGood.com](http://www.ImmunizeForGood.com)

(Great “Colorado” Parent Website)

- [www.VoicesForVaccines.org](http://www.VoicesForVaccines.org)

(Great “National” Science-Based Parent Website)



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# Colorado Immunization Information System (CIIS)

CIIS Coordinator for Schools

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303-691-4073



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## Colorado Department of Public Health and Environment

Home > Division of Disease Control and Environmental Epidemiology > Immunization Program > CIIS

### Colorado Immunization Information System



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Many documents on this site are PDF files, which require the use of the free Adobe Acrobat Reader.



## Colorado Immunization Information System



Keeping track of shot records has never been easier! By participating in the Colorado Immunization Information System (CIIS), healthcare professionals, parents and individuals can rest assured that their immunization records are safe and complete.

CIIS is a confidential, population-based, computerized system that collects and disseminates consolidated immunization information for Coloradans of all ages.



### News

#### New CIIS Registry Application

CIIS will transition to a NEW registry application in 2011. We are very excited about the future of the immunization registry, and we look forward to providing CIIS Users a robust, stable system with expanded functionality. [Read our official memo!](#)

#### CIIS Enhancements - Effective July 9, 2010

CIIS implemented various enhancements to the current registry web application. Many of the more exciting improvements were user-driven and offered as suggestions via the annual CIIS User Survey, including:

- Larger flags and different colors for contraindications,

# This is why we make the effort!



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THANK YOU FOR ALL YOU DO!

# The Colorado Immunization Section

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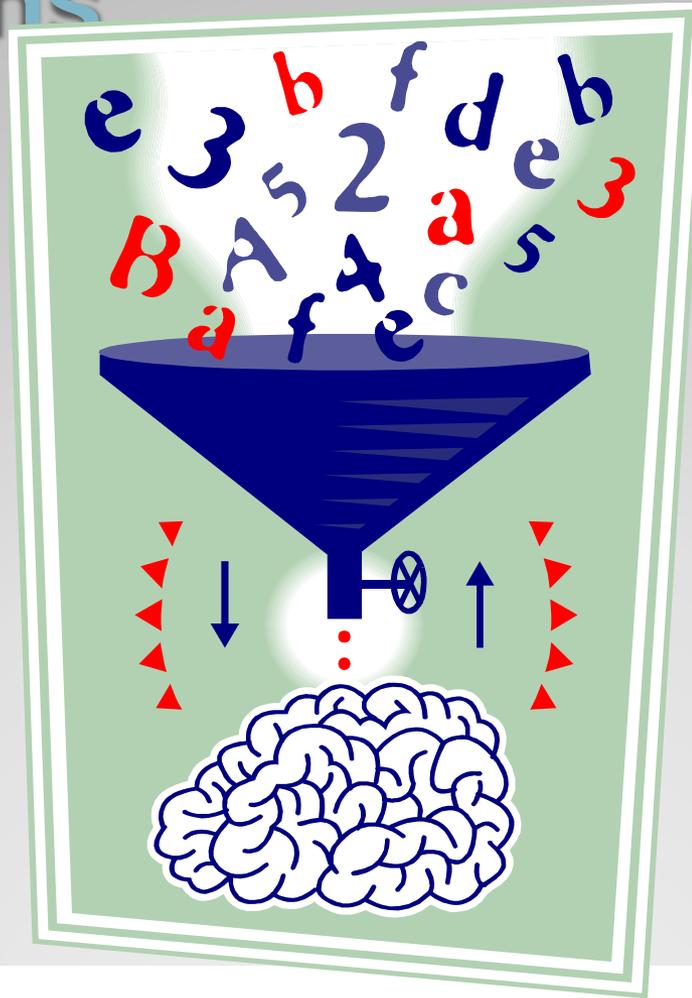
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# Questions



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