



Learning Objectives

- Understand challenges facing users at schools and child cares using the immunization registry.
- Learn about solutions in Colorado to overcome challenges and increase immunization registry use.

Overview

- Colorado Immunization Information System (CIIS)
- Challenges
- Functionality for Schools and Child Cares
- CIIS Enhancements
- Partnerships

Colorado Immunization Information System (CIIS)

- CIIS became a web-based registry in 2001.
- 2007 became a life long registry.
- 2011 new CIIS application went live including participation from staff at schools and child cares.
- July 1, 2011 School nurses allowed to enter immunization and demographic information into CIIS.

Approximate CIIS Participation:

- 90% of public school districts and 11% private schools.
- 5% of licensed child care centers.
- 72% of Head Start facilities.



Overview

- Colorado Immunization Information System (CIIS)
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Challenges

- Registry usage from schools and child cares
- Immunization legislation and statutes
- Family Education Rights and Privacy Act (FERPA)

Colorado Solutions

- Functionality for schools and child cares
- CIIS Enhancements
- Partnerships



Immunization Legislation

In May 2014 the Colorado General Assembly passed House Bill 14-1288

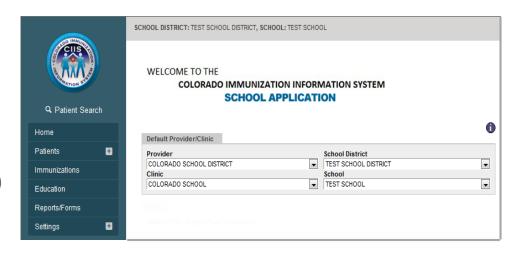
Requirements as July 1, 2014:

- Schools/child cares must make immunization and exemption rates publicly available, upon request.
- Colorado Board of Health (BOH) to make rules regarding:
 - Frequency of submitting immunization exemption forms
 - Child cares: non-medical immunization exemption forms would be submitted following the ACIP schedule
 - K-12th grade: non-medical immunization exemption forms would be submitted during annual enrollment/registration.
 - Submission of rates to CDPHE annually.

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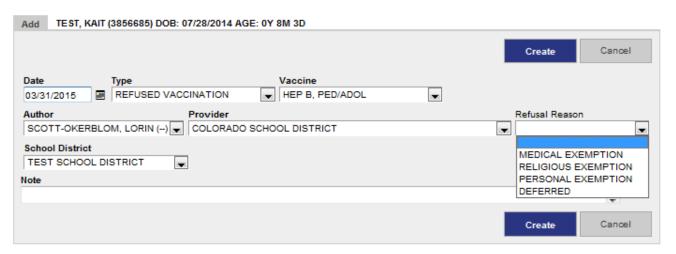
- CIIS has web application specific for school users.
- School nurses can add or update information.
- Child cares and Head Starts have access to view information only.
- CIIS Modules
 - Patients
 - Demographic
 - Notes
 - Precautions/Contraindications
 - Immunizations
 - Historical immunizations (nurses)
 - Education
 - Student enrollment in CIIS
 - Reports/Forms
 - Settings





Exemptions

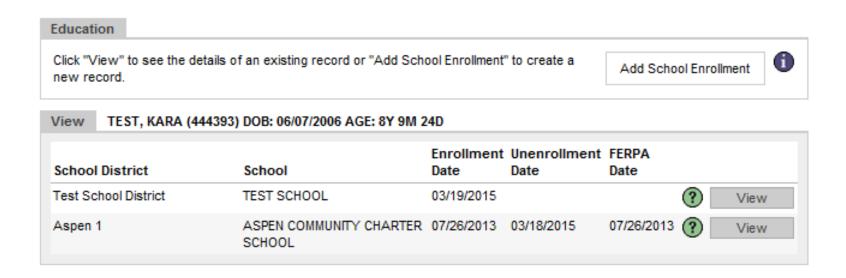
• Schools can enter immunization exemptions into CIIS under the *Notes* section.





Education Module

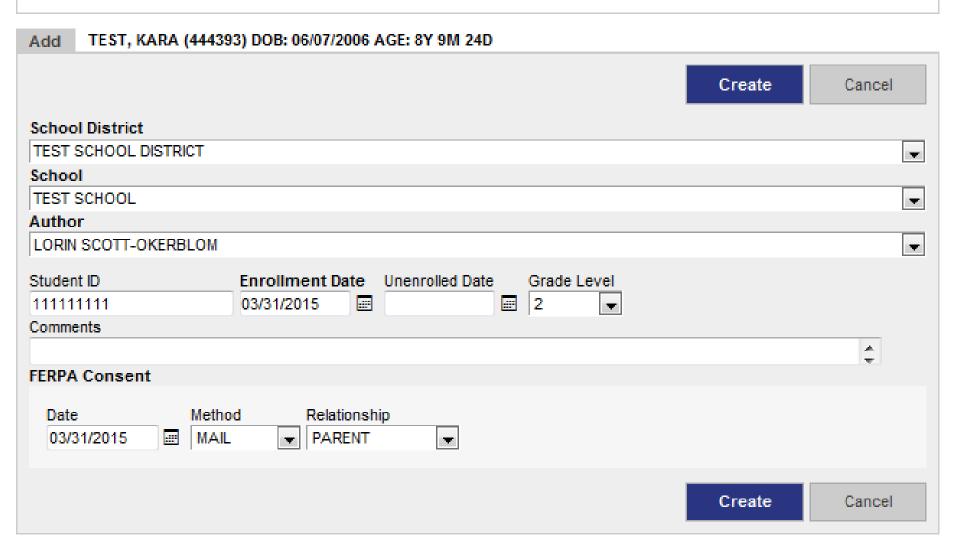
 Both schools and child cares can manually enter the facility the child attends in CIIS.



Education

Click "Create"/"Update" to save the record or "Cancel" to return to the previous page.



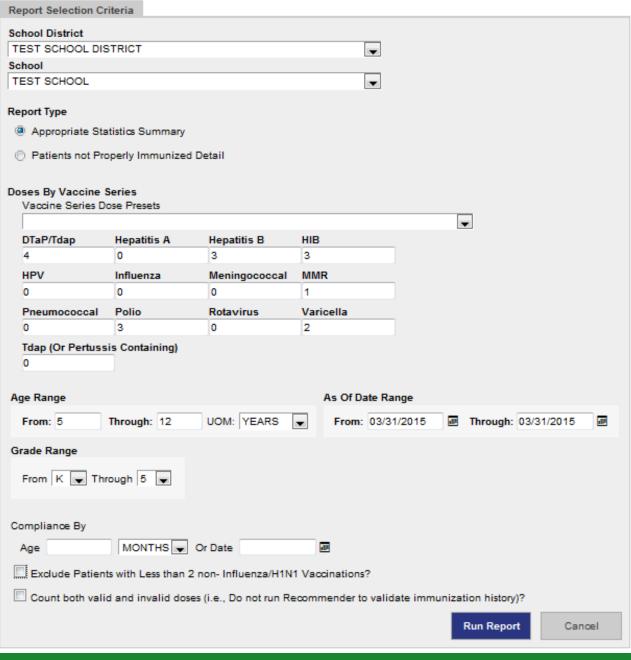


Reports

- Immunization Rates
- Student Grade Advancement
- Student Roster

School Nurse

Immunization Rates Student Grade Advancement Student Roster



Immunization Rates Report



Immunization Rates - Appropriate Immunizations

School District = Test School District, School = TEST SCHOOL, DTaP/Tdap Series Count = 4, HepB Series Count = 3, HIB Series Count = 3, MMR Series Count = 1, Polio Series Count = 3, Varicella Series Count = 2, Age Range = 5 - 12 (YEARS) As Of 03/31/2015 - 03/31/2015, Exclude = N, Count Valid And Invalid Doses = N, Grade From = K, Grade Through = 5

	Ful	II Data Set	
Total Patients	3		
Total INACTIVE Patients	0		
Adjusted Total Patients	3		
Patients GIVEN appropriate number of doses of all indicated antigens	1	(33.33)	
Patients NOT GIVEN appropriate number of doses of all indicated antigens	2	(66.67)	
Children Given the following vaccine combinations:			
Patients with at least 4 valid doses in the Tetanus containing/Tdap vaccine series	2	(66.67)	
Patients with at least 3 valid doses in the Polio vaccine series	2	(66.67)	
Patients with at least 1 valid doses in the MMR/Measles vaccine series	2	(66.67)	
Patients with at least 3 valid doses in the Hib vaccine series	1	(33.33)	
Patients with at least 3 valid doses in the HEPB vaccine series	2	(66.67)	
Patients with at least 2 valid doses in the Varicella(CPOX) vaccine series	3	(100.00)	

Immunization Rates - Patients Not Properly Immunized

Last: 03/20/2015 3938078 TEST, JIMMIE DOB: 12/31/2009 Remind: 10 E ORANGE ST

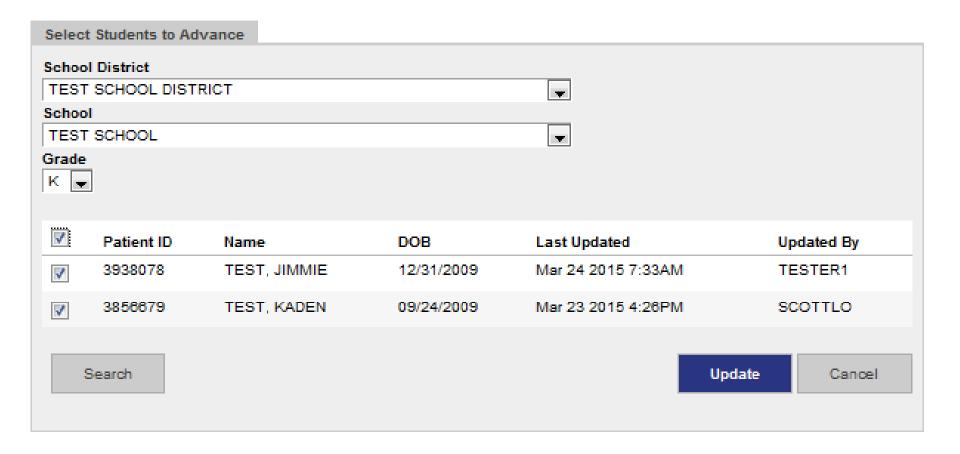
(W): **DENVER, CO 80205** County: DENVER

Primary Contact: CLAIRE TEST Relationship: MOTHER Grade: K

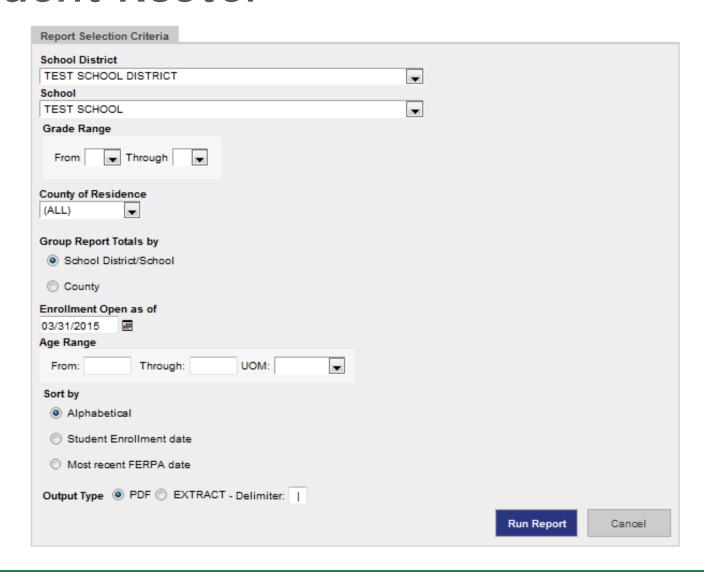
Mother: CLAIRE Father: Default Clinic: PHYLLIS MANUAL CLINIC Local ID:

Vaccination	Dose	Given On	Given At	Reason Invalid
DTaP (Daptacel)	1	03/01/2010	PR	
DTaP (Daptacel)	2	05/02/2010	PR	
DTaP (Daptacel)	3	07/05/2010	PR	
DTaP (Daptacel)	4	04/01/2011	PR	
DTaP (Daptacel)	5	03/20/2015	TRP	
Polio-IPV	1	03/01/2010	PR	
	DTaP (Daptacel) DTaP (Daptacel) DTaP (Daptacel) DTaP (Daptacel) DTaP (Daptacel) DTaP (Daptacel)	DTaP (Daptacel) 1 DTaP (Daptacel) 2 DTaP (Daptacel) 3 DTaP (Daptacel) 4 DTaP (Daptacel) 5	DTaP (Daptacel) 1 03/01/2010 DTaP (Daptacel) 2 05/02/2010 DTaP (Daptacel) 3 07/05/2010 DTaP (Daptacel) 4 04/01/2011 DTaP (Daptacel) 5 03/20/2015	DTaP (Daptacel) 1 03/01/2010 PR DTaP (Daptacel) 2 05/02/2010 PR DTaP (Daptacel) 3 07/05/2010 PR DTaP (Daptacel) 4 04/01/2011 PR DTaP (Daptacel) 5 03/20/2015 TRP

Student Grade Advancement



Student Roster





Student Roster

School District = Test School District, School = TEST SCHOOL, County = (ALL), Enrollment Date = 04/16/2015, Sort By = Alphabetical

School District/School: Test School District / TEST SCHOOL

Name (ID)	Age	Date of Birth	Grade	Enrollment Date	Un-Enrollment Date	Most Recent FERPA Date	
TEST, JIMMIE (3938078)	5Y 3M 16D	12/31/2009	K	04/14/2015			
TEST, KADEN (3856679)	5Y 6M 23D	09/24/2009	K	03/17/2015			
TEST, KARA (444393)	8Y 10M 9D	06/07/2006	2	03/19/2015			

Test School District / TEST SCHOOL Patient Totals: 3

Report Patient Totals: 3

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CIIS Enhancements

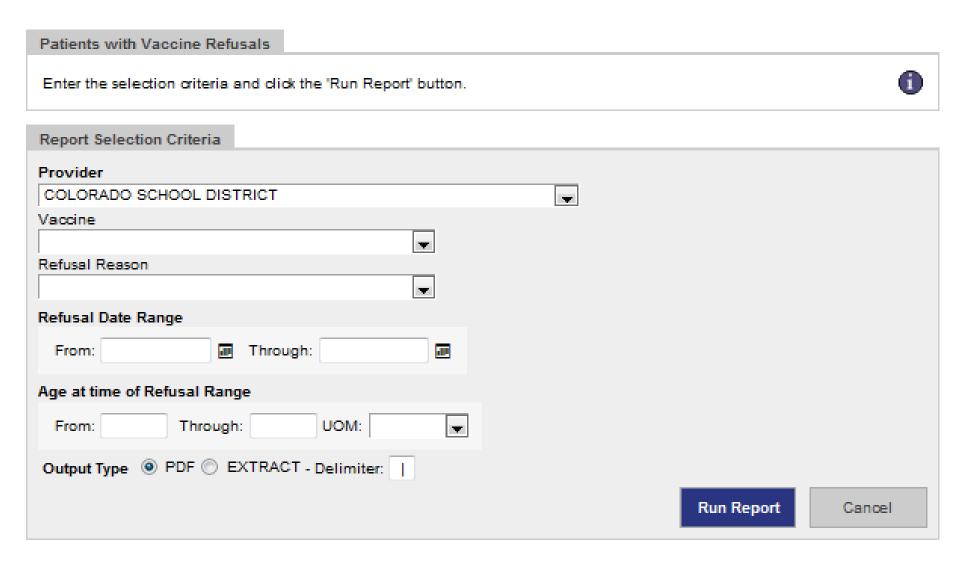
Exemption Module

- Exemptions easier to enter and more easily accessible.
- CDPHE or school staff will enter exemptions into system from paper or online form.

Exemption Report

- List students with exemption type and date claimed.
- Aggregate numbers on exemption types.
- Information on valid exemptions and flag students that need to complete new exemption form.

CIIS Exemption Report







Patients with Vaccine Refusals

Provider = COLORADO DEPT OF PUBLIC HEALTH AND ENVIRONMENT, Refusal Date (from) = 05/16/2012, Refusal Date (through) = 01/07/2015

02/07/2013

1Y 11M 0D

Patient Name	DOB	Age	Note Date	Vaccine Refus	sed	Refusal Reason
TEST, HARPER (2087582)	09/25/2004	10Y 3M 13D				
•			01/07/2015	MMR		Personal Exemption
TEST, HENRY (2301274)	03/25/2007	7Y 9M 13D				
			05/03/2013	MMR	1	Personal Exemption
			08/04/2014	Tdap	1	Medical Exemption
			08/04/2014	Tdap		Medical Exemption
TEST, TEST (3565972)	10/05/2010	4Y 3M 2D				
			10/24/2014	Influenza, Sea	sonal	Personal Exemption
TEST, TI (3853840)	05/20/2008	6Y 7M 18D				
			05/20/2013	DTaP		Personal Exemption
			05/20/2013	Hep A, Ped/A	dol	Religious Exemption
			05/20/2013	Hep B, Ped/A	dol I	Personal Exemption
			05/20/2013	Hib, PRP-T (A	ctHib)	Religious Exemption
			05/20/2013	Influenza, Sea	sonal	Personal Exemption
			05/20/2013	MMR		Personal Exemption
			05/20/2013	PCV-13 (Previ	nar) I	Religious Exemption
			05/20/2013	Polio-IPV		Religious Exemption
			05/20/2013	VAR (Varivax)		Religious Exemption
TEST, TILLY (3853828)	05/20/2012	2Y 7M 18D				
			05/20/2013	DTaP		Medical Exemption
TEST, TISTA (3975350)	10/07/1999	15Y 3M 0D				
			10/07/2013	Hep A,		
			10/07/2013	Hep B,	Number of p	patients by vaccine re
			10/07/2013	Influenz	DT, ped	
			10/07/2013	MCV4	DTaP	
			10/07/2013	MMR		
			10/07/2013	Polio-IF	Hep A, Ped	/Adol
			10/07/2013	Tdap	Hep B, Ped	/Adol
			10/07/2013	VAR (V	Hib, PRP-T	
TEST, TULIPINA (3853782)	05/20/2011	3Y 7M 18D		·		. ,
,			05/00/0040	DT-D	Influenza S	Seasonal

Number of patients by vaccine refused			Normalism of motionts by refused record	
			Number of patients by refusal reason	
	DT, ped	1	Medical Exemption	3
	DTaP	3	Personal Exemption	4
	Hep A, Ped/Adol	2	Religious Exemption	2
	Hep B, Ped/Adol	2		
	Hib. PRP-T (ActHib)	1		

Influenza, Seasonal

MCV4 (Menactra)

PCV-13 (Prevnar) Polio-IPV Tdap VAR (Varivax)

MMR

DTaP

DT, peo

05/20/2013

10/07/2013

TEST, TYSTAL (3975352)

CIIS Enhancements

Student Roster Upload

- Upload a spreadsheet of all students
 - Return spreadsheet with all immunizations documented for students in registry.
 - Allows schools to use information from CIIS to update their own systems.
 - Enroll all students with school/school district or child care in CIIS.

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Partnerships

From HB 14-1288, CDPHE must work with other state departments to develop joint immunization data collection and data sharing policies

Through legislation and necessity, new relationships have been formed.

- Colorado Department of Education
 - Family Educational Rights and Privacy Act (FERPA) Guidance
 - Student directory information
 - Supporting training efforts to meet HB 14-1288 requirements
- Colorado Department of Human Services
 - Outreach and education with licensing

Conclusion

There are many challenges that face child cares and schools from accessing and using the immunization registry. Colorado has focused on solutions to these issues to increase the usage and effectiveness of the registry and improve data.

- CIIS Functionality
- CIIS Enhancements
 - Exemption Module
 - Student Roster Upload
- Partnerships

Questions?



