

A Successful Story

Using An Immunization Information System to Assist the Implementation of AB354

Jennifer Sterling, N/A¹, Heidi DeGuzman³, Wendy Wang, MPH¹ and Linda Bethel, RN, MPH, Karen Waters-Montijo, MPH², ¹Department of Pediatrics, UCSD, San Diego Immunization Partnership, San Diego, CA, ²Immunization Branch, San Diego County Health and Human Services, San Diego, CA, ³San Diego Immunization Partnership, University of California San Diego, San Diego, CA



Background:

- 7-12th grade students = 244,000 (in county)
- Public School = 342
- Private School = 195
- Public School Districts = 41
- School district sizes range from 2 students to 57,590



Background:

- 39 out of 41 School Districts use San Diego Immunization Registry (SDIR) look up students' immunization histories
- Staff at one of the largest school districts input the students' immunization histories to SDIR
- SDIR provides schools with the capability of generating reminder/recall and missing immunization reports
- Immunization Program staff conducted a series of onsite SDIR trainings for school staff

Setting

- Assembly Bill 354 passed on 09/29/2010
- A sticker documenting Tdap immunization (form PM286 S) needed to be attached to each California School Immunization Record (CSIR)
- Prior to AB354, 47% of 7th -12th grade students in San Diego were up-to-date with the Tdap vaccine
- Challenge: the new law affected students in the grade levels which were never affected before
- Challenge: schools needed to review all 7th-12th grade students for documentation of the vaccine.



Ready For 7th Grade?

You'll need proof of a whooping cough shot
ShotsForSchool.org



Method

- One of the largest school districts sought assistance from Immunization Program staff to utilize SDIR
- School districts IT staff, Immunization staff, SDIR software developer , District and Project Nurse were involved in the project
- SDIR features were enhanced with the options of uploading school rosters and modifying reports to meet the State immunization requirement
- Immunization program staff provided special training to school health clerks and nursing staff on how to obtain school rosters and run missing Tdap immunization reports

Method

- District staff provided rosters for all 7th -12th grade students to SDIR staff
- SDIR Staff pre-populated the registry with electronic student information including all immunizations
- School staff used SDIR to document students' personal belief, and permanent and temporary medical exemptions (PBE, PME, TME) status
- District staff printed a California School Immunization Record (CSIR) from the registry.

Result

- 57,590 students information uploaded into SDIR
- Tdap status – prior to upload, the Tdap status for this school district was 30% coverage
- District staff used the missing immunization report to follow-up with approximately 37,320 students
- At the end of 4 months, the school district had a compliance rate of 100%
- Tdap coverage was 97% (waivers = 2.8%)

Missing Immunization Report

Detail List of Missing Immunizations

Source Name: Unified School District Run By: Jennifer Sterling
 Facility Name: Unified School District - A Date Run: 3/15/2012 08:25:53
 Reported Facilities: 5172 - School District
 Age: Age From: 12 To: 15 years
 As Of Date: Age As Of: 03/14/2012
 Primary Criterion: overdue
 Shortage Vaccine Group(s) to Exclude: POLIO DTP MMR HIB HEP B VARIC HEP A Influenza PNEUMO Rota_Virus
 Include Only Patients w/Invalid Doses: Y
 Include Inactive Records: Y
 Include One-time Immunizations: Y

lpid	592810	DoB	05/30/1998	DION, CELENE CELESTE
Td[Tdap] 1				
lpid	592863	DoB	01/20/2000	DION, CELINE MAY
Td[Td] 1				
lpid	592199	DoB	02/14/2000	DIONE, CELINA BEA
Td[Tdap] 1				
lpid	592178	DoB	10/07/1997	DUC, DAI
Td[Td] 1				
lpid	592197	DoB	07/18/1999	DUC, DAIZEE MOUSE
Td[Td] 1				
lpid	592158	DoB	09/14/1998	DUCK, DAISIE DONELLA
Td[Tdap] 1				
lpid	592666	DoB	09/14/1998	DUCK, DAISIE DONELLA
Td[Td] 1				
lpid	592177	DoB	10/04/1997	DUCK, DAISLY ELIZBETH
Td[Td] 1				

Result

- Using SDIR not only produced accurate immunization information but applied the required PM 286s sticker to the CSIR, if printed out
- Saved district staff time transcribing to a CSIR
- Over 1,000 staff in both public and private schools were trained in the 2010/2011 school year resulting in positive feedback 98% of the time

Tdap (Pertussis Booster) Requirement

Date of Tdap Immunization ___ / ___ / 20__

Birthdate ___ / ___ / ___

Check one:

Tdap was given on or after 7th birthday. (Td does not meet requirement.)

Medical exemption from physician on file.

Tdap personal belief exemption affidavit from parent/guardian on file.

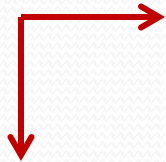
School Staff Name _____

Today's Date _____

Student Name or ID _____

PM 286 1/01/10

SDIR Created CSIR – Blue Card



SDIR
Generates
the
Form
PM
286 s
(required
sticker)

Tdap (Pertussis Booster) Requirement
 Date of Tdap Immunization 11 / 29 / 2007
 Birthdate 11 / 12 / 1994
 District: Applies given on or after 7th birthday. (No consent requirement.)
 Medical exemption from physician as file.
 Religious belief exemption efficient from parent/guardian only.
 School Year: 03/15/2012
 Subject Name: DION, CELEEN
 Student Number: _____

CALIFORNIA SCHOOL IMMUNIZATION RECORD

This record is part of the student's permanent record (cumulative folder) as defined in Section 49068 of the Education Code and shall transfer with that record. Local health departments shall have access to this record in schools, child care facilities, and family day care homes.

This record must be completed by school and child care personnel from an immunization record provided by parent or guardian. See reverse side for instructions.

Student Name DION, CELEEN Sex: M F Birthdate 11/12/1994 Place of Birth United States
 Name of Parent or Guardian REGOTTAZ, FRENCH Race/Ethnicity: White, not Hispanic
 Hispanic Black Other: Unknown Address: _____
 Telephone _____ City _____ ZIP _____

VACCINE	DATE EACH DOSE WAS GIVEN					
	1st	2nd	3rd	4th	5th	Booster
POLIO (OPV or IPV)	01/15/1995	06/20/1996	08/28/1999	02/19/2008		
DTP/DTap/DI/Td (Diphtheria, tetanus and acellular pertussis OR tetanus and diphtheria only)	01/20/1995	07/24/1995	08/01/1995	12/01/1995	08/28/1999	
MMR (Measles, mumps, and rubella)	12/01/1995	11/14/1999				
HIB (Required only for child care and preschool)	04/11/1995	07/24/1995	11/01/1995			
HEPATITIS B	04/11/1995	07/24/1995	08/28/1999			
VARICELLA (Chickpox)	Had Disease					
HEPATITIS A (Not required)	05/05/2003	01/20/2008				

TB SKIN TESTS	Type*	Date given	Date read	mm indur.	Impression	CHEST X-RAY (Necessary if skin test positive)
PPD-Mantoux	<input type="checkbox"/> PPD-Mantoux				<input type="checkbox"/> Pos	Film date: _____ Impression: <input type="checkbox"/> normal <input type="checkbox"/> abnormal
	<input type="checkbox"/> Other				<input type="checkbox"/> Neg	
PPD-Mantoux	<input type="checkbox"/> PPD-Mantoux				<input type="checkbox"/> Pos	Person is free of communicable tuberculosis: <input type="checkbox"/> yes <input type="checkbox"/> no
	<input type="checkbox"/> Other				<input type="checkbox"/> Neg	

*If required for school entry, must be Mantoux unless exemption granted by local health department.

I. DOCUMENTATION

I certify that I reviewed a record of this child's immunizations and transcribed it accurately:

Date: _____
 Staff Signature: _____

Record Presented was:

- Yellow California Immunization Record
 Out-of-state school record
 Other immunization record
 Specify: SDIR

II. STATUS OF REQUIREMENTS

- A. All Requirements are met.
 Date: ____/____/____
 B. Currently up-to-date, but more doses are due later. Needs follow-up.
 Exemption was granted for:

- C. Medical Reasons—Permanent
 D. Medical Reasons—Temporary
 E. Personal Beliefs

III. 7th GRADE ENTRY

- A. All Requirements are met.
 Name: _____ Date: _____
 B. Currently up-to-date, but more doses are due later. Needs follow-up.
 Name: _____ Date: _____

Result

- An immunization registry can save a provider time if a school enters immunization information
- County staff save time completing the yearly state report requirements by utilizing the registry for immunization review and printing out the CSIR
- County staff can quickly monitor a school's immunization records and view exemptions for students should a disease be reported




Lessons learned

- Training staff is time consuming
- Traditional hands-on training will not meet future demand
- Innovative training methods need to be developed utilizing new technology such as WebEx
- Tools need to be developed to assist District Administrators to understand the benefits of the registry
- Districts that have electronic systems are hesitant to give up their own systems for the registry

Conclusion

- A immunization registry is a great tool to assist schools with immunization review
- Registries can save parents and providers time with immunization documentation in the registry
- A registry is a good way to monitor exemption rates
- A registry could be used to assist Public Health in disease surveillance at school sites
- A registry can save time and resources.

Contact



Jennifer Sterling
County of San Diego,
Immunization Program
School and Childcare Coordinator
Jennifer.sterling@sdcounty.ca.gov
619-692-8366

