A Successful Story

Using An Immunization Information System to Assist the Implementation of AB354

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Background:

- 7-12<sup>th</sup> 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
• 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.
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 7<sup>th</sup>-12<sup>th</sup> 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  
**Facility Name:** Unified School District - A

- **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 with Invalid Doses:** Y  
**Include Inactive Records:** Y  
**Include One-time Immunizations:** Y

<table>
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<tr>
<th>lpid</th>
<th>DoB</th>
<th>Name</th>
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<tbody>
<tr>
<td>592810</td>
<td>05/30/1998</td>
<td>DION, CELENE CELESTE</td>
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<td>592863</td>
<td>01/20/2000</td>
<td>DION, CELINE MAY</td>
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<td>592199</td>
<td>02/14/2000</td>
<td>DIONE, CELINA BEA</td>
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<tr>
<td>592178</td>
<td>10/07/1997</td>
<td>DUC, DAI</td>
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<td>592197</td>
<td>07/18/1999</td>
<td>DUC, DAIZEE MOUSE</td>
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<td>592158</td>
<td>09/14/1998</td>
<td>DUCK, DAISIE DONELLA</td>
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<td>592666</td>
<td>09/14/1998</td>
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<td>592177</td>
<td>10/04/1997</td>
<td>DUCK, DAILSY ELIZABETH</td>
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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
SDIR Created CSIR – Blue Card

SDIR Generates the Form PM 286 s (required sticker)

CALIFORNIA SCHOOL IMMUNIZATION RECORD

Student Name: DION, CELEEN
Sex: M F X
Birthdate: 11/12/1994
Place of Birth: United States
Name of Parent or Guardian: REGOTTAZ, FRENCH
Race/Ethnicity: Other: Unknown
Address: ________________________________
City: __________ Zip: __________
Telephone: ________________________________

VACCINE

<table>
<thead>
<tr>
<th>VACCINE</th>
<th>1st Date</th>
<th>2nd Date</th>
<th>3rd Date</th>
<th>4th Date</th>
<th>5th Date</th>
<th>Booster</th>
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<tbody>
<tr>
<td>POLIO (OPV or IPV)</td>
<td>01/15/1995</td>
<td>06/20/1996</td>
<td>08/28/1999</td>
<td>02/19/2008</td>
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<tr>
<td>MMR (Measles, mumps, and rubella only)</td>
<td>12/01/1995</td>
<td>11/14/1999</td>
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<td></td>
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<tr>
<td>HIB (Required only for child care and preschool)</td>
<td>04/11/1995</td>
<td>07/24/1995</td>
<td>11/01/1995</td>
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<tr>
<td>VARICELLA (Chickenpox)</td>
<td>Had Disease</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HEPATITIS A (Not required)</td>
<td>05/05/2003</td>
<td>01/20/2008</td>
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TB

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<thead>
<tr>
<th>Type</th>
<th>Date Given</th>
<th>Date Read</th>
<th>Min Value</th>
<th>Impression</th>
<th>CHEST X-RAY (Necessary if skin test positive)</th>
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<tbody>
<tr>
<td>SKIN TESTS</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>PPD Maxillary</td>
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<tr>
<td>PPD Maxillary Lower</td>
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</tbody>
</table>

[Form fields for documentation and status of requirements]
An immunization registry can save a provider time if a school enters immunization information for students.

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

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