



Ruben Tapia ■ *LA Immunization Program*
Quan Le ■ *LA Immunization Program*
Erich Daub ■ *Scientific Technologies Corp.*

Statewide Consumer Access to Immunization Records: Louisiana's Implementation of a Web-Based, Nationally-Capable System

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The Opportunity

- 4.6 million LA residents cannot directly access immunization records
- Over 2,300 LA providers (>95%) use the SIIS
- Some coverage rates are low (431331 = 72%)
- 90% (280.6 M) U.S. population lacks records access



Approach

System requirements collected nationally

- Free consumer accounts in a web platform
- Initial in-person provider authentication
- Account cohorting of family members
- Unlimited record look-ups
- ACIP-compliant forecasting



Approach

- Automated e-mail immunization reminders
- SIIIS administrative controls
- Audit trails & reports
- Registry-agnostic Web-based application
- Consumer does not have a SIIIS account



Application Design

- Hosted via Amazon HIPAA-compliant cloud
- Secure web application [MyIR.net](#) manages HL7 queries & responses to/from SIIS
- No consumer account in the SIIS
- Application returns history and forecast
- State-specific record format(s) provided
- Blue Button+ data exchange with 3rd party destinations (e.g. PHR, EMR, IIS)



Flexible Workflows

Consumer-initiated

- Online registration
- ↓
- In-person provider authentication
- ↓
- Anytime records access

Provider-initiated

- In-Office consumer recruitment
- ↓
- Real-time authentication & approval
- ↓
- Authentication & approval + batch registration form entry



Consumer Registers



- 5 item registration
- e-mail + password serves as login
- Single use e-mailed URL

Louisiana MyIR.net My State ▾ Login Register ▾ Help About

Registration

Step 1

Registration Email

E-mail (repeat)

First Name

Last Name

Password

Password (again)

Please enter the word below.



Cohorts Family



- Identifies family members


You and your family

For email assistance click [here](#)

[Add New Family Member](#)

View/Print	First Name	Last Name	DOB select box to change	Age
<input checked="" type="checkbox"/>	<input type="text" value="Margaret"/>	<input type="text" value="Perry"/>	<input type="text" value="01/06/1971"/>	42 years
<input checked="" type="checkbox"/>	<input type="text" value="Makinzie"/>	<input type="text" value="Perry"/>	<input type="text" value="01/06/1997"/>	16 years

[Personal Certificate With Schedule](#)



- Submits request; visits provider for approval



Provider Authentication



- Provider authenticates & approves request
- Consumer has any-time record look-up access

Look up

Last Name


Select Consumer Patient

Last Name	First Name	Phone Number	Street
asdf	asdf	123-123-1234	asdfasd
sirin	jacob	318-445-8795	1212 N Erd
Johnson	Michelle		



State-specific Record

- One or more state-specific record formats
- Typically contains both history and forecast
- Consumer prints, stores, forwards on-demand


 **State of Louisiana Universal Certificate of Immunizations**

Expiration Date: 01/28/2014 Vaccine: DTaP/DT/Td
This record is invalid without a proper expiration date

Child's Name: Morgan Daub Date of Birth: 06/01/2002 Parent or Guardian: Erich Daub
SIIS Patient ID: 560301

Vaccine	MONTH, DAY AND YEAR EACH DOSE WAS GIVEN							
	Dose 1	Dose 2	Dose 3	Dose 4	Dose 5	Dose 6	Dose 7	Dose 8
DTaP/DT/Td	06/01/2013	06/29/2013						
VARICELLA	06/01/2003	06/29/2006						
MMR	06/01/2003	06/01/2006						
POLIO	08/01/2002	10/01/2002	12/01/2002	06/01/2006				
HEP-B 3 DOSE	06/01/2002	08/01/2002	12/01/2002					
PNEUMO (PCV)	10/01/2002							
HEP-A								
HIB								

* School Entry Complete-Minimum: 4-DTP, 3-Polio, (last DTP and Polio after 4th birthday), 2-MMR after 1st birthday and, 3-Hep B
*** Daycare Center: Hib also required
xxx Beginning Aug 2003, Varicella vaccine or history of the disease will be required for school and daycare entry.
Varicella History:
I certify that this child has received the above noted immunizations and is in compliance with rules set forth by the State of Louisiana. Department of Health and Hospitals, Office of Public Health until the expiration date above.

	10/04/2013	MyIR.net
Authorized Signature	Date	Clinic of Issue

Tracking ID: 80E76NU3VQ08J863F585DD0Y
Falsification of this record could result in imprisonment for not more than five years or by a fine of not more than five thousand dollars, or both, pursuant to R.S. 14:132 or R.S. 14:133.
The sole purpose of this form is to document a patient's immunization history to authorized child care/school officials in accordance with Louisiana laws and regulations. It is not intended for use as a government-issued form of identification and cannot be accepted as a primary source of identification. The Louisiana Department of Health and Hospitals and its affiliated departments do not monitor or have control over the usage of this form. Therefore, these



Demonstration

Demonstration



Features & Benefits

- Simple, safe, secure consumer access
- Authenticated account
- Consumer-directed records transfer via Blue Button+
- Automation minimizes intervention by healthcare providers and SIIS staff
- Automated reminders increase likelihood of fuller coverage + up-to-date status
- Multi-state improves SIIS completeness



Pilot Implementation

- Site: LAKE PEDIATRICS at Goodwood
- Largest practice in Baton Rouge
- 19,020 doses given in previous 12 months
- 20,790 Medicaid (ages 0 – 18 years)
- 21,000 need vaccinations
- 21,000 VFC eligible
- 210 Uninsured





Pilot Implementation

- In-office provider enrollment & authentication
- Kiosk + paper form consumer registration
- Promotional brochures
- Free consumer access after account approval
- Online provider training + FAQs
- Phone + e-mail technical support
- Goal: >1,700 households registered in 30 days



Pilot Evaluation

- Application performance metrics
- Provider/consumer usage metrics
- Help Desk support calls profiles and metrics
- Before, During, after-pilot provider surveys
- Sampled consumer feedback e-mails
- Phased statewide rollout – early 2014



New User Interface - Home

MyIR.net MY STATE ▼ HELP ABOUT

SIGN IN

Registration is Easy

Start using MyIR today and receive up to date federal and state health information that help you make informed decisions about your families health.

Register Today



Mandatory vaccination saves lives



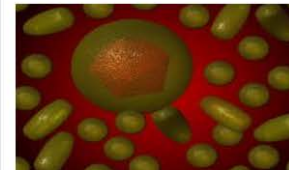
Vaccines save lives. It has been proven

Why Working More Than 8 Hours A Day Can Kill You



If you're accustomed to being the last one

Physician Underscores the Importance of Hepatitis B



y name is Keith Van Zandt, and I

ADD FAMILY MEMBER



New User Interface – Family Dashboard





MyIR.net

Pitt Family

HELP

ABOUT

Sign Out

	First Name	Last Name	DOB	
	Brad	Pitt	Dec. 18, 1963	<
	Angelina	Jolie	June 4, 1974	<
	Shiloh Nouvel	Jolie-Pitt	July 30, 2009	<
	Pax Thien	Jolie-Pitt	July 23, 2013	<


ADD FAMILY MEMBER

Mandatory vaccination saves lives



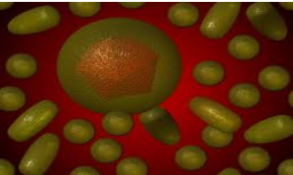
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Contacts

Ruben Tapia, MPH

Director, Immunization Program, Office of Public Health, Louisiana
Department of Health and Hospitals ruben.tapia@la.gov

Quan Le, RN

LINKS Program Manager, Immunization Program, Office of Public Health,
Louisiana Department of Health and Hospitals Quan.Le@la.gov

Erich M. Daub

Senior Public Health Advisor, Consumer Health Lead,
Scientific Technologies Corporation, Tucson, AZ
erich_daub@stchome.com

