

## Consumer Connections to IIS Records:

A Spectrum of Approaches and Results



## **Overview**

Name	Organization	Topic
James Daniel	Office of the National Coordinator for Health IT (ONC)	The Possibilities of Engaging Consumers – an Orientation
Karl Moeller	Scientific Technologies Corporation (STC)	Improving the Consumer Matching Process
Jennifer Hui	Audacious Inquiry (Ai)	<b>Experience from the Field &amp; Engaging New Partners</b>
Shannon Stokley	NCIRD/CDC	Findings from Evaluation of the Third Year of Providing Consumer IIS Records Access
Cathy Zier	Caredox	Other Models for Consumer Access
Angel Aponte	New York City Department of Health and Mental Hygiene	Other Models for Consumer Access



## Consumer Engagement for IIS Project

- Goal: Increase consumer access to online immunization records and forecasts.
- Collaborative project between ONC, CDC, Audacious Inquiry (Ai), and Scientific Technologies Corporation (STC).









# **Consumer Engagement for IIS - Project Implementation**

- Pilot an online portal that provides consumer access to immunization records after they complete a registration and authentication process.
- Connect to IIS in each Pilot State (AZ, LA, WA, WV)
- Engage health care providers and consumers
- Promote MyIR through various marketing techniques to consumers
- Evaluate project activities and impact on consumers

# **Consumer Registration Options – Years 1-2**

#### **Provider-Authenticate Registration: Consumer or Provider-Initiated**

- 1. Register online at myir.net
  - Consumer
  - Provider
- 2. Consumer visits healthcare provider for in-person authentication and approval.
- 3. Healthcare provider identity-proofs consumer and provides access code to consumer.
- 4. Consumer enters access code to complete the authentication process and obtain access to immunization record.

## **Evaluation Findings – Pilot Year 2**

## **Provider-Initiated registration process**

- Forgot to go online and complete steps (27%)
- Forgot/lost PIN (22%)
- Didn't have time to complete (17%)

#### **Consumer-Initiated registration process**

- Didn't know had to go to provider office to complete registration (37%)
- Waiting until next scheduled visit to complete registration (23%)
- Not willing to schedule a visit just to complete registration (19%)



## **Overcoming Challenges**

- Alternate approaches to increase consumer access:
  - » Implementation of Online Authentication May 2016
    - 1. The Online Authentication registration method allows consumers to self-register online and have an access code sent by SMS text or autodial to complete the authentication process.
    - 2. In the event that a record is not found (matched), consumers may request authentication by their healthcare provider/state health dept. to access their immunization record.
  - » Increase marketing efforts
  - » State-Assisted Registration
  - » Pharmacy pilot

# Scientific Technologies Corporation



# Consumer Access to IIS Records: Secure Enrollment Techniques

Karl Moeller
VP Public Sector
Scientific Technologies Corporation (STC)

# **Connecting to Consumers**



- Online Authentication
  - All states except WV
  - Connected through Phone number OR Address
    - Text Message/Auto Dial Code
    - Mail Code (only in LA/AZ)
  - Most Popular
    - Convenient
- Provider Registration
- State Assisted Registration
  - Only in WA
  - Good reception

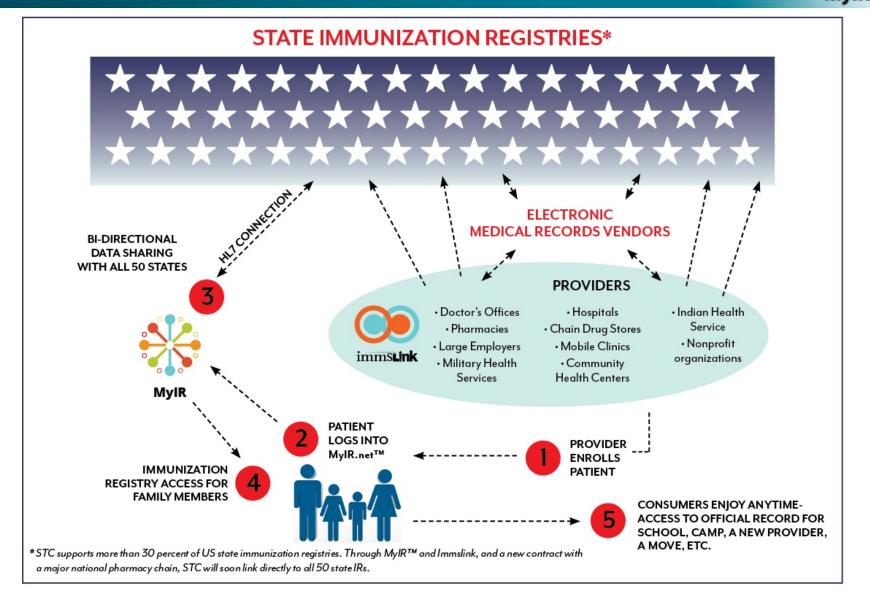
# Identity-Proofing



- A person is who they say they are
- They are legally entitled to access the health records of related individuals
- An in-person visit to a healthcare provider was the "Gold Standard"
- This standard was the original procedure for the MyIR pilot project

# Identity-Proofing





# Automating Identity-Proofing



# A new "two factor" method eliminates: An in-person provider visit

Provider workloads, disincentives, etc. eliminated

An emailed link and login from home

■ Factor 1: Something you "know"

Consumer's family registration data

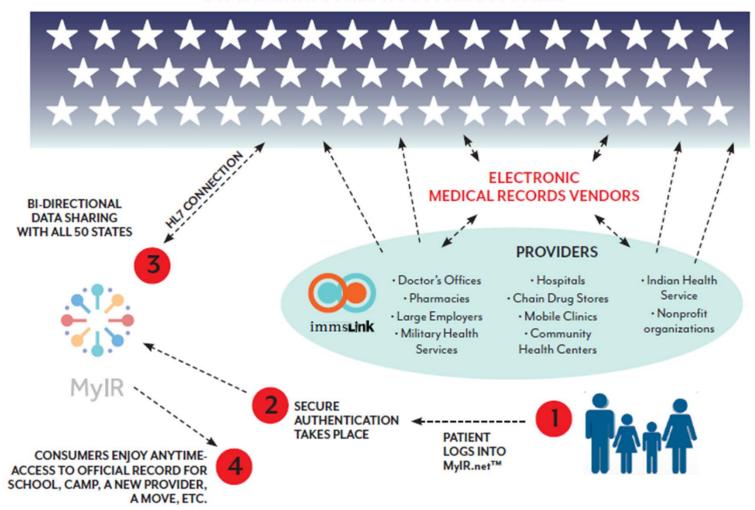
■ Factor 2: Something you "own"

Consumer's phone or physical mailing address

# Identity-Proofing



#### STATE IMMUNIZATION REGISTRIES\*

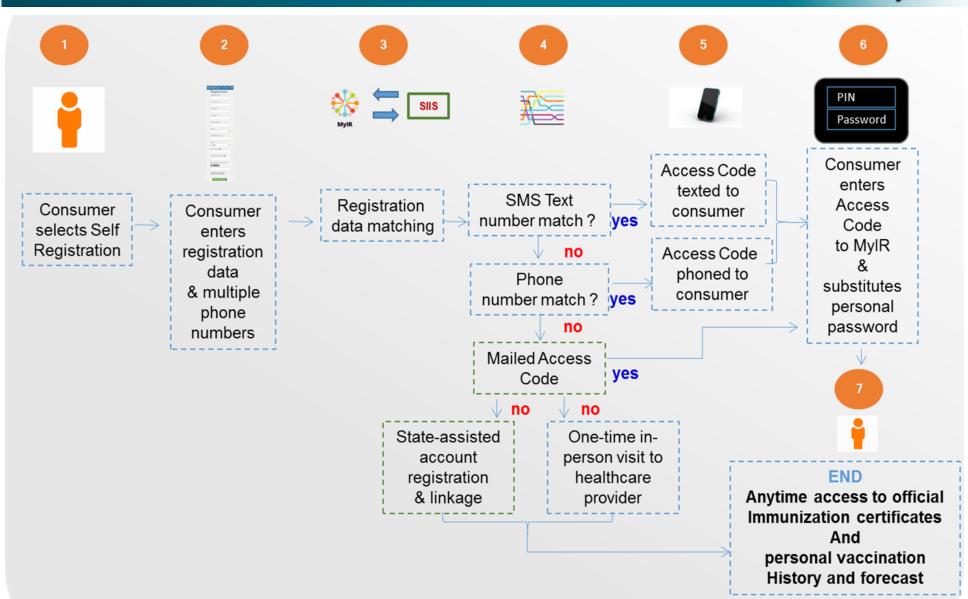


<sup>\*</sup>STC supports more than 30 percent of US state immunization registries. Through MyIR™ and Immslink, and a new contract with a major national pharmacy chain, STC will soon link directly to all 50 state IRs.

# Online Authentication Workflow

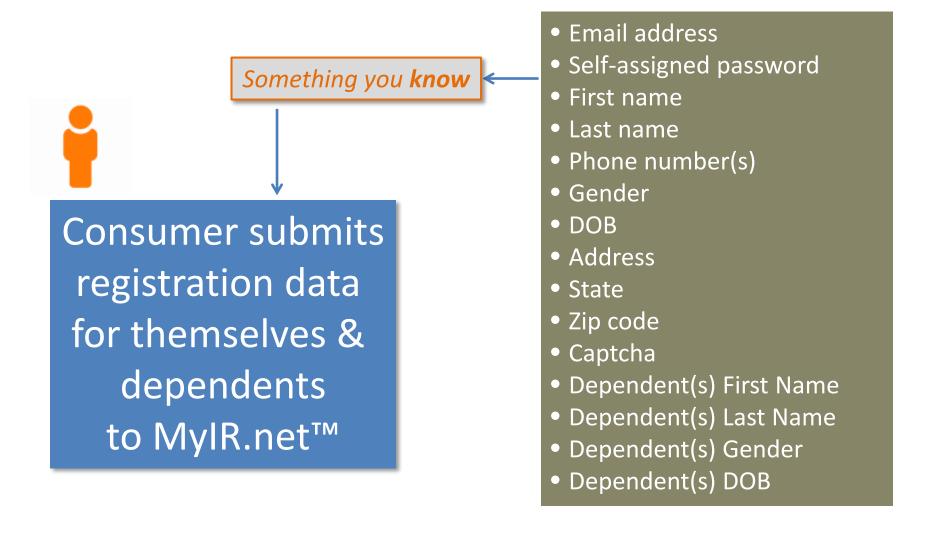


MyIR



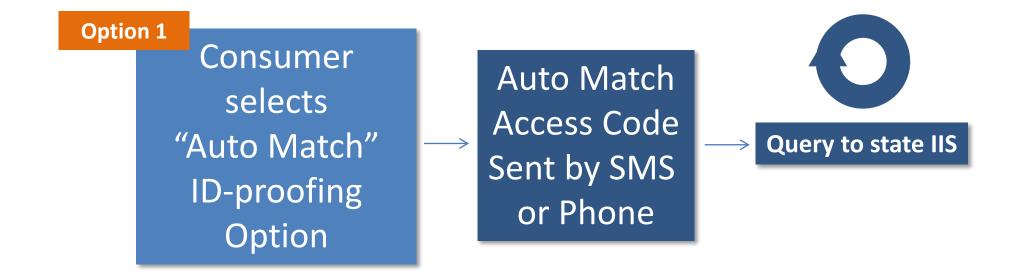
# 1. Registration Data





# 2. ID-Proof & Records Matching





## 3. Match Outcomes



Match Algorithm

If registration data & phone
number exactly matches
data in state IIS, Access
Code
sent to consumer via SMS
text or phone autodial –
consumer enters Access
Code

Something
you
own

Something
you
own

Match Algorithm

If registration data (but NOT
phone number) exactly
matches data in IIS,
Access Code sent to
consumer via mail —
Consumer enters Access
Code

Match Algorithm

If registration data does NOT exactly match data in state IIS) consumer can submit ID-proof to State -
State may approve account

# 4. Consumer Access



Consumer has anytime, anywhere, any device real-time access to copies of their official **Immunization** Records



# Registration



MyIR

Washington MyIR My State - Register - Login Help About



#### **Your Immunization Record May Not Look Complete**

There may be some vaccines you or your family received that don't appear on the immunization record in MyIR, such as the human papillomavirus (HPV) vaccine. HPV vaccine is sometimes given by a healthcare provider confidentially. Since MyIR doesn't know which HPV vaccines were given confidentially or not, all HPV vaccinations are hidden on immunization records in MyIR. Contact your healthcare provider if you think you need a more complete record of your or your family's immunization history.







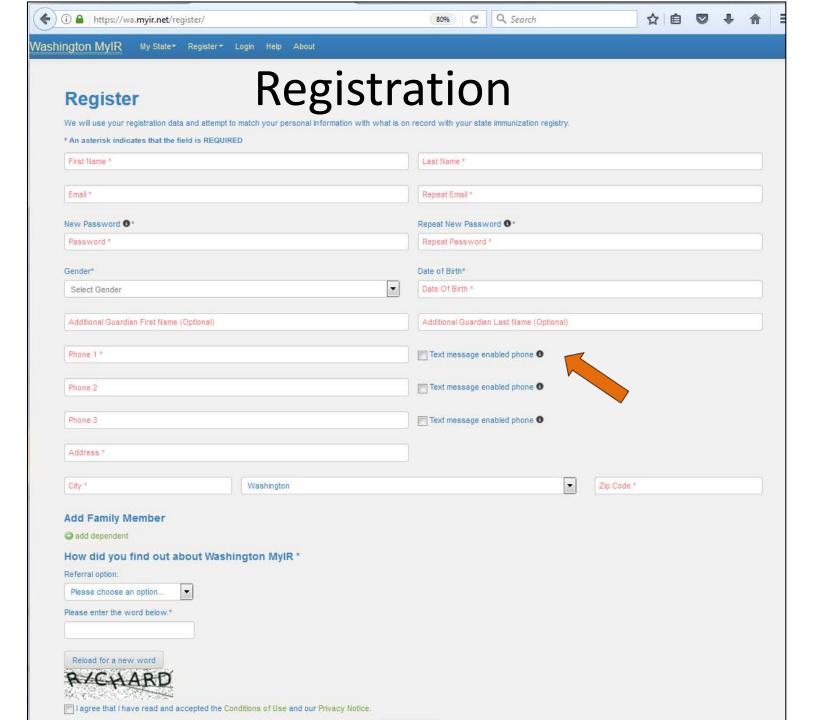
Washington State Department of Health Office of Immunization and Child Profile

Immunization Action Coalition

#### Personal Testimonies about Vaccine-Preventable Diseases

Real-life accounts of suffering and loss due to vaccinepreventable diseases. Read these powerful stories







# Online Authentication Option





You have successfully registered for MyIR! The next step is to have your identity verified and link your official state immunizations records with your account. Choose one of the verification options below then click NEXT to complete your registration.



#### Auto Match (instant)

We will use your registration data and attempt to match your personal information with your state immunization record. If we find an exact match, an SMS text message or autodial will be sent to the matched phone number sending a verification code to enter into MyIR.



State Assisted Registration (may take up to a month)



Health Care Provider Assisted Registration

Next

You can come back to this page anytime by going to Mylmmunizations and clicking on "Verification Options"

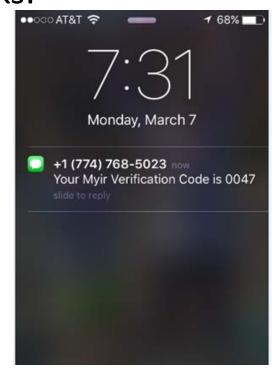


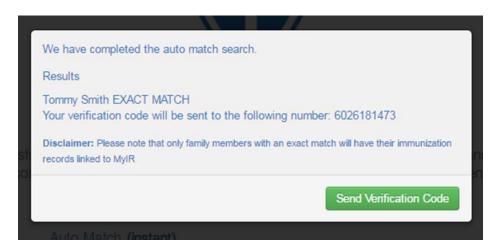
Your information is safe and secure.

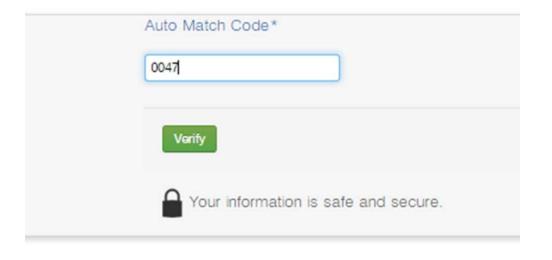
# Matching Options



When Online Authentication works:



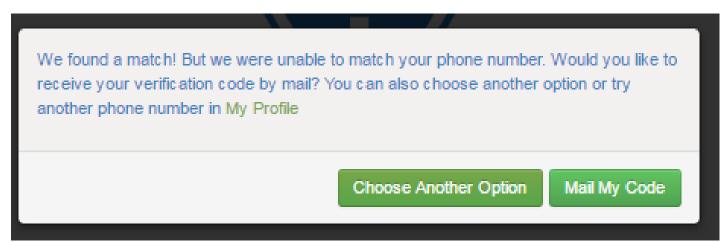




# Matching Options



When Online Authentication fails, Mail Codes can be sent:



#### You and your family

#### Add New Family Member

View/Print	First Name	Last Name	DOB (MM/DD/YYYY)	Gender		Age	Delete	Status
•	John	Smith	03/06/1979	Male	*	37 years		14

Show me my immunization records

Certificate of Immunization

#### For email assistance click here

NOTE: If you notice that any immunizations are missing, in error, or not up-to-date, please contact your healthcare provider.



#### Looking for official Washington Immunization certificates?

- If your family's status in the table above shows a 🗸, they have access to the official state immunization database and can receive official documentation certifying school and daycare immunizations
- If your family member needs an immunization certificate, click the Certificate of Immunization button.

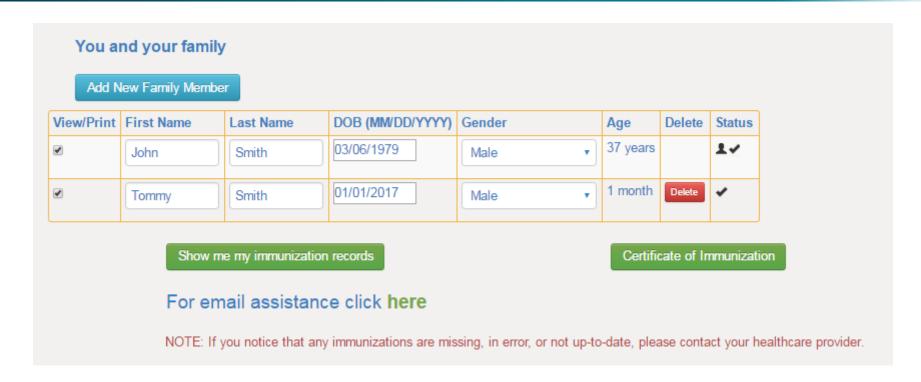
Be informed! To review your family's immunization schedule according to state recommendations, click the Personal Certificate With Schedule button.

MyIR

| ©STC 2017 | Back to the top | Contact Us | Terms and Conditions | ©My/R.net |

@STC's @MyIR, the state's authorized record access system for you and your family's immunization records





# **(3)**

#### **Patient Vaccination and Forecast Record**



#### **Smith Family**

#### Vaccinations on Record for John Smith Age 37 years

Vaccine Name	Dose 1
Tdap	July 11, 2016

#### Vaccination Schedule

This table shows up-to-date, past-due, and upcoming vaccinations:

Vaccine Family	Dose	Scheduled Date	Minimum Valid Date	Status
FLU	7.	Sept. 6, 1979	Sept. 6, 1979	Past Due
DT&P/DT/T6	В	July 11, 2026	July 11, 2021	Up to Date

#### Vaccinations on Record for Tommy Smith Age 1 month

Vaccine Name	Dose 1	Dose 2	
HEP-B 3 DOSE	Jan. 1, 2017	March 1, 2017	

#### Vaccination Schedule

This table shows up-to-date, past-due, and upcoming vaccinations.

Vaccine Family	Dose	Scheduled Date	Minimum Valid Date	Status
DTBP/DT/Td	4	March 1, 2017	Feb. 12, 2017	Due Now
HIB	- 24	March 1, 2017	Feb. 12, 2017	Due Now
PNEUMO (PCV)	1	March 1, 2017	Feb. 12, 2017	Due Now
POLIO	1	March 1, 2017	Feb. 12, 2017	Due Now
ROTAVIRUS	-1	March 1, 2017	Feb. 12, 2017	Due Now
FLU	1	July 1, 2017	July 1, 2017	Up to Date
HEP-8 3 DOSE	3	July 1, 2017	June 18, 2017	Up to Date
MMR	3	Jan. 1, 2018	Jan. 1, 2018	Up to Date
VARICELLA	- 1	Jan. 1, 2018	Jan. 1, 2018	Up to Date
HPV	- 1	Jan. 1, 2028	Jan. 1, 2026	Up to Date
MENING	1	Jan. 1, 2028	Jan. 1, 2027	Up to Date

# Official State-Specific Record







## Office Use Only: Reviewed by: MylR Date:03/09/2017 Signed Cert. of Exemption on file? Yes 20 No

Please print	See ha	ck for instr	etions on h	ow to fill out ti	his form or ge	it printed	from the In	nmunization	Information	System	,	-		
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## Measurement



- Weekly metrics count consumer choices and outcomes
- Consumers may still choose to visit a provider for in-person ID-proofing
- Targeted promotional campaigns will be tracked through a registration data field in MyIR™



## THANK YOU

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Scientific Technologies Corporation (STC)

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## Washington State MyIR: Experience from the Field

## **Challenges Getting Started**

- 1. Recruiting providers
- 2. Competition with EHRs
- 3. State DOH Resource Limitations

## Alternative approaches

- 1. Build upon existing infrastructure
- 2. Provide alternative registration options







# Washington State MyIR: Alternative Approach #1 - Records Requests

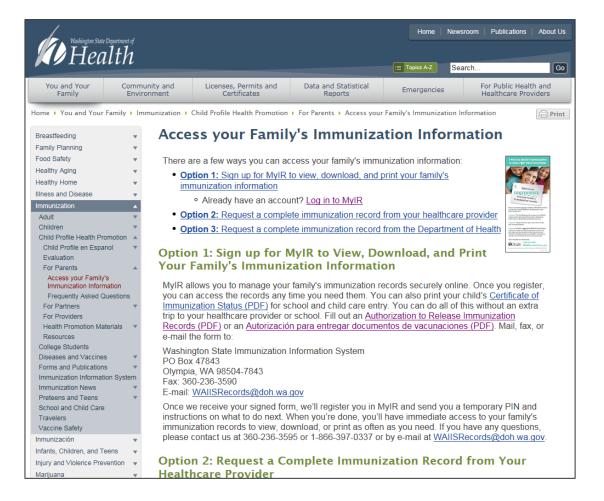
				IMMUNIZATION - INFORMATION SYSTEM
A COPY	Y OF THIS COMPLETED ORIGINAL DOCUM	MENT IS CONSIDERED THE SAM	ME AS THE ORIGINAL	
Washington State	DRIZATION TO RELEA Immunization Information S 5-397-0337   Fax: 360-236-3	ystem, PO Box 47843	, Olympia, WA 98504	
Patient/Child Information (if reque	esting records for more that	n one patient or chil	l, see side 2 of this for	·m):
Patient/Child First Name	Patient/Child Middle	Name	Patient/Chi	ld Last Name
/ / Patient/Child Date of Birth (MM/DD	/YYYY) Pat	tient/Child Previous N	iame(s)	
Parent/Guardian Information:				
		( )	Parent Phone Number	
Parent/Guardian Full Name (if patien	t is less than 18 years old)	Patient/Child or	Parent Phone Number	r (include area code)
Address (including apt. #, if applicable	le) Cit	у	State	Zip Code
Parent/Guardian E-mail Address		/ /	n Date of Birth (MM/I	
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## Washington State MyIR: Alternative Approach #2 – Marketing and Promotions

Promotional webpage (doh.wa.gov/immsrecords)



Child Profile Health Promotion mailings







## Washington State MyIR: Alternative Approach #2 - Marketing and Promotions

- Pilot Ad Campaign in Seattle Metro Area
  - » Champion Dr. Wendy Sue Swanson http://www.king5.com/news/health/childrenshealthlink/ask-dr-swanson-what-we-knowabout-vaccines/119953103
  - » Online ad campaign with outlets such as:
    - Seattle Times
    - Volunteer Spot
    - Parent Map
    - Parenting/Mommy Blogs







# **Engaging New Partners in Washington**

1. Outreach to School Districts

2. Rite Aid and RediClinic Pilot (Seattle and Tacoma regions)





## Rite Aid Pilot Planning and Implementation

- Pilot Period: February 2017 July 2017
- Pilot Area: Seattle-Tacoma Region
- Process
  - » Integration with the Washington IIS
  - » Training pharmacists
  - » Marketing
    - In-store distribution of flat-panel cards with instructions on how to sign up for MyIR
      - Targeting Rite Aid customers who receive in-store immunizations

"The MyIR service is a great tool that helps to initiate an important discussion between pharmacist and patient. In addition, it highlights the important services that pharmacists provide as part of the healthcare team. We have been using this service to help provide immunization record access to patients but then further parlaying this interaction into a full discussion about the patient's vaccination needs."

-Rite Aid Pharmacist Testimony



# **Rite Aid Pilot by the Numbers**

# of Rite Aid Stores	27
# of RediClinics	11
# of Pharmacists Trained	65
# of Nurse Practitioners Trained	33 (training on 3/14)
# of Consumers Registered	27
# of Consumers Fully Activated	15
RiteAid.myir.net Sessions (since Feb 1, 2017)	124

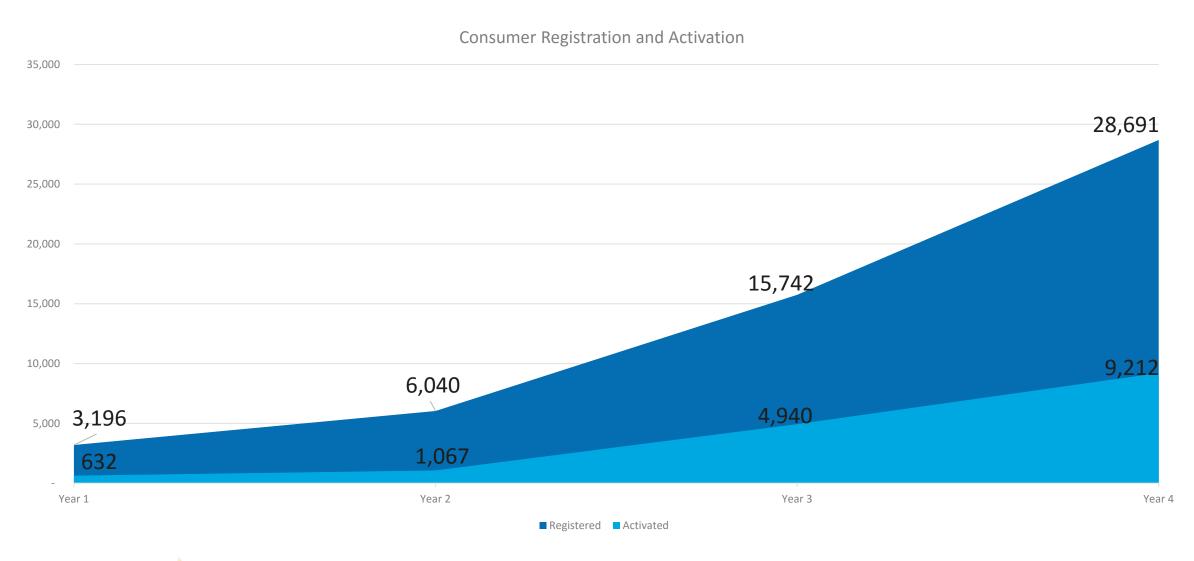
#### **Evaluation – Sources of Information**

- 1. Weekly Metrics
- 2. Consumer Survey Data
- 3. State Key Informant Interviews

# **Metrics**

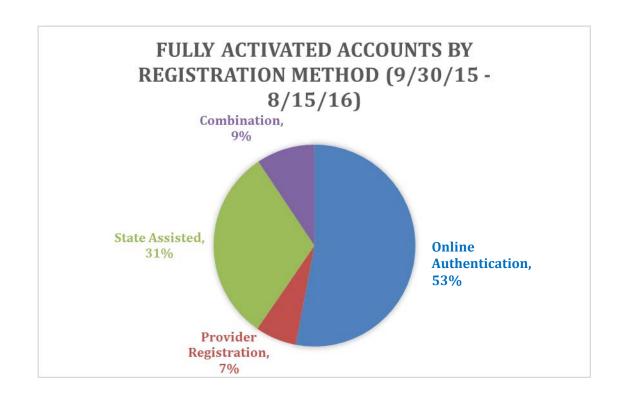
Registration Method	Program Inception to Date (2013 - 4/3/17)		Project Year (9 <i>)</i>	/29/16 - 4/3/17
	Registered	Activated	Registered	Activated
Provider	12,050	1,600	2,213	147
(Success Rate)		(13%)		(7%)
State-Assisted	3,411	2,457	781	587
(Success Rate)		(72%)		(75%)
Online Authentication (Implemented 5/6/16)	20,931	6,746	10,736	3,538
(Success Rate)		(32%)		(33%)

## **Consumer Registration and Activation by Project Year**



#### **Evaluation Summary**

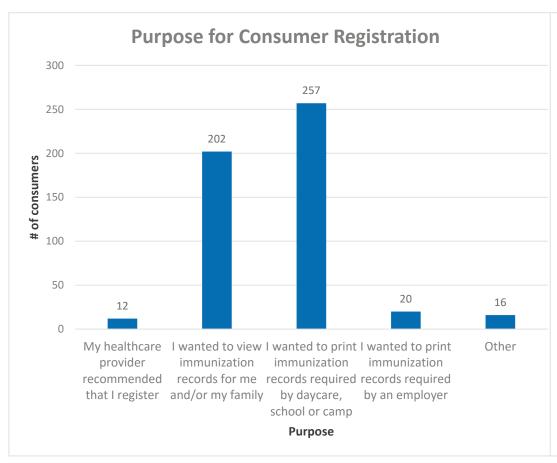
- Since program inception (2013 April 2, 2017), across all 4 pilot sites:
  - » Record pulls to date: 77,074
  - \* # of accounts that have gained access to their immunization records through provider or stateassisted authentication: 4,057
  - Total accounts that have completed the Online Authentication registration and authentication process: 6,746
    - Note that Online Authentication was implemented in May 2016 and has surpassed the provider registration method.

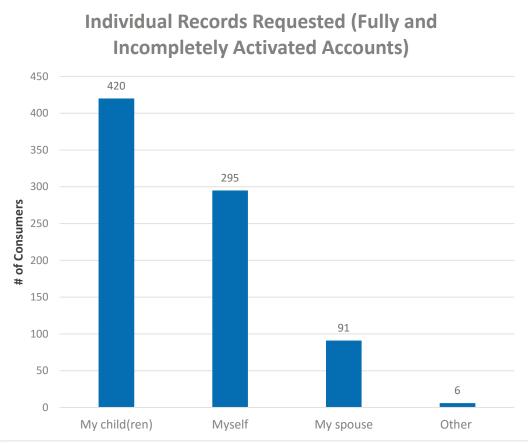


# **Evaluation – Consumer Survey Respondents**

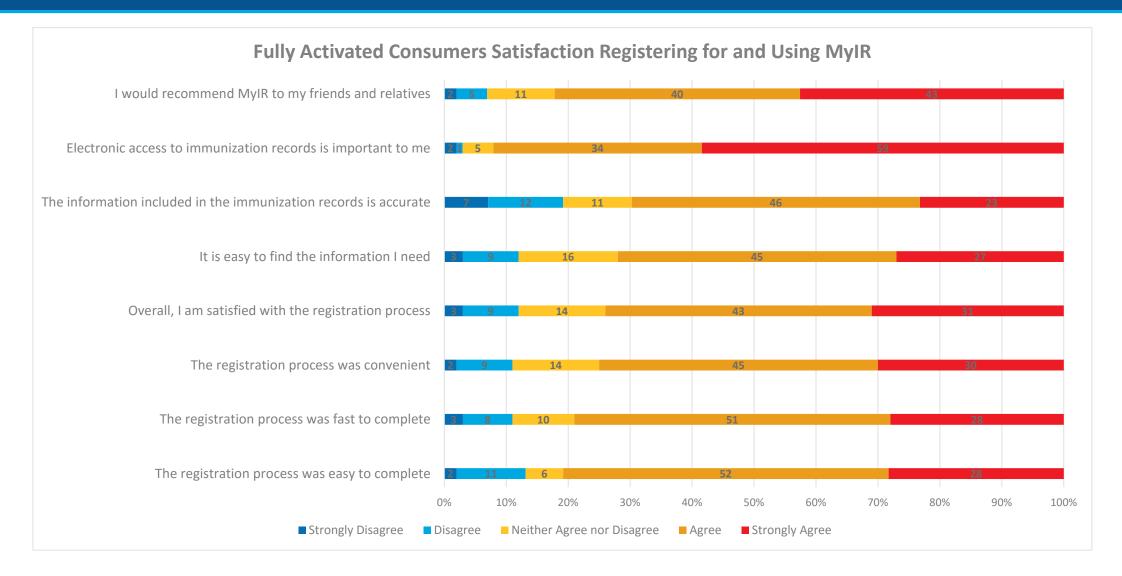
Consumer Survey Respondents		
State	Fully Activated Respondents (n= 212)	Incompletely Activated Respondents (n= 303)
Arizona	2 (<1%)	20 (7%)
Louisiana	21 (10%)	58 (19%)
Washington	188 (89%)	221 (73%)
West Virginia	1 (<1%)	4 (1%)

#### **Consumer Surveys - Purpose for Consumer Registration**

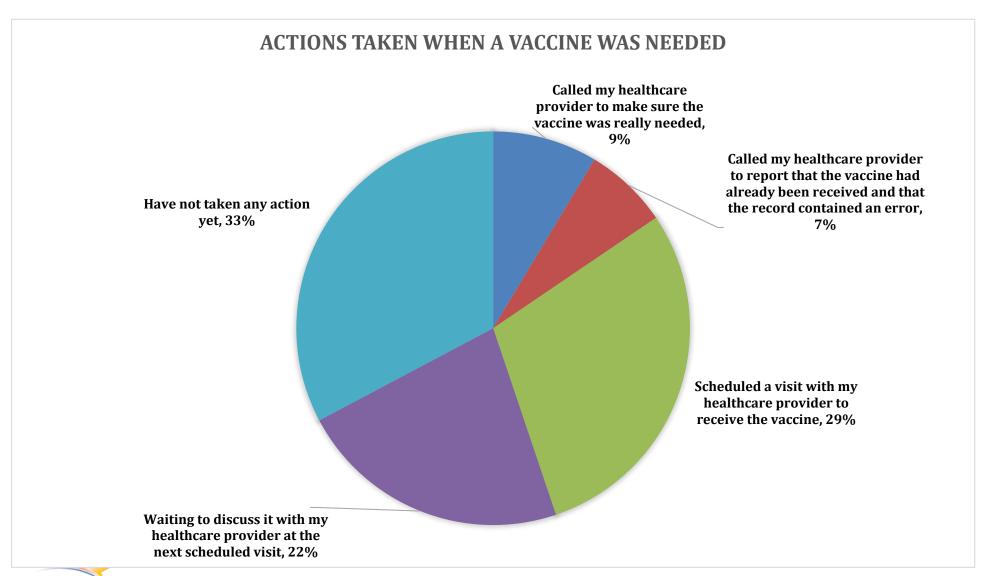




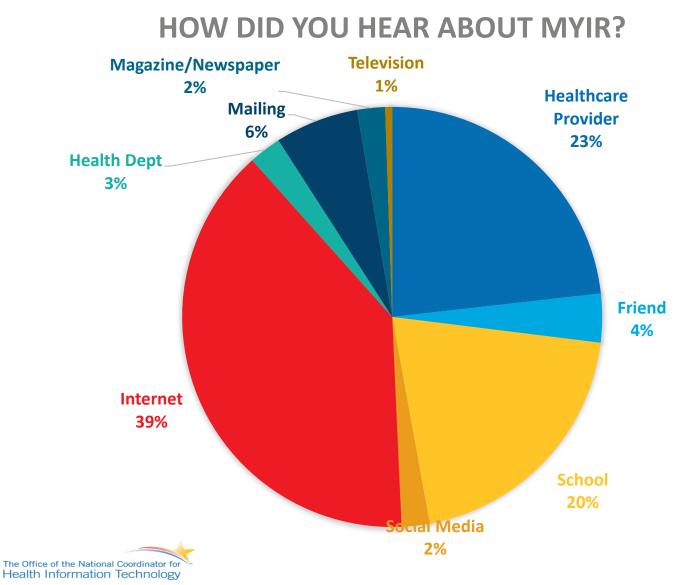
#### **Consumer Survey Respondents Satisfaction**



## Impact of Use of MyIR on Consumer Behaviors



#### **Consumer Survey Respondents – Marketing**





#### Save Time By Getting Your Family's Immunization Records Online!

April 2, 2016 · by Leslie Pleasants · Leave a Comment

If you don't need to see the doctor wouldn't you love that! Nothings worse then taking time out of your day to sit in the waiting room for who knows how long then to finally get in ONLY because you need some immunization records. Even making the phone call down there takes time out of your day. They typically wont mail them or fax them to you so you have to make the trip to their office whether you like it or not.

What if you could change all that?

What if YOU had control and access to your families records?



Parent Access in Partnership with Schools

# Agenda

The CareDox Approach
Metrics
Challenges
Process
Q&A

50,000,000 Students

45M Medicare Public Schools are the largest health system in America

10M Kaiser 13 M Humana



# CareDox CareHub System









**Parent Portal** 

Secure Portal for Enrollment, Health Alerts and Updates

Student Health Record

Nurse Portal
Cloud-Based Records &
Medication Mgmt.
System

District Portal

Data Reporting & Analytics



#### **Providers**

Platform to share patient Information with CareDox



#### Insurance

A comprehensive source of patient data



#### Medicaid, ACOs

Seamless coordination with schools



#### Research

Unique data sets of health indictors



IN ACTION NATIONWIDE

250,000

Growth in parental records access from 40,000 within the year

500,000

Health records with link to IIS

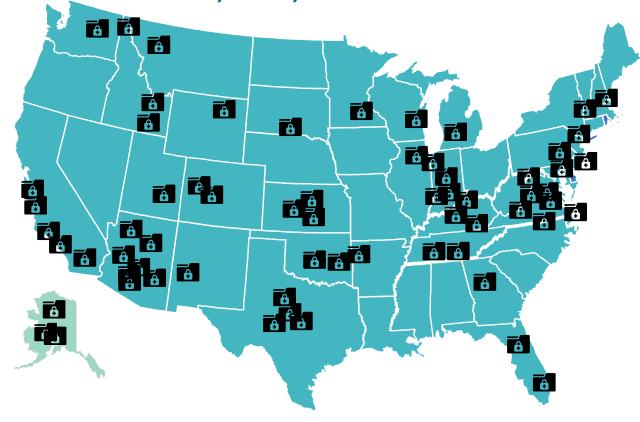
7,357,440

Immunization records (33% are from IIS)

282,974

Immunizations two way sent back in 2 states

# 36 States 1,500,000 children













# Problem: why is it hard to engage patients



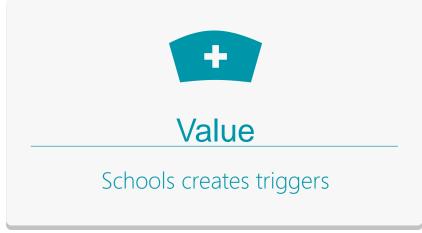


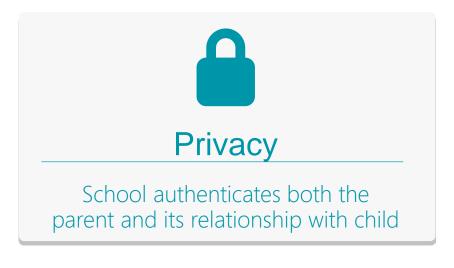




# Solution: why schools can work







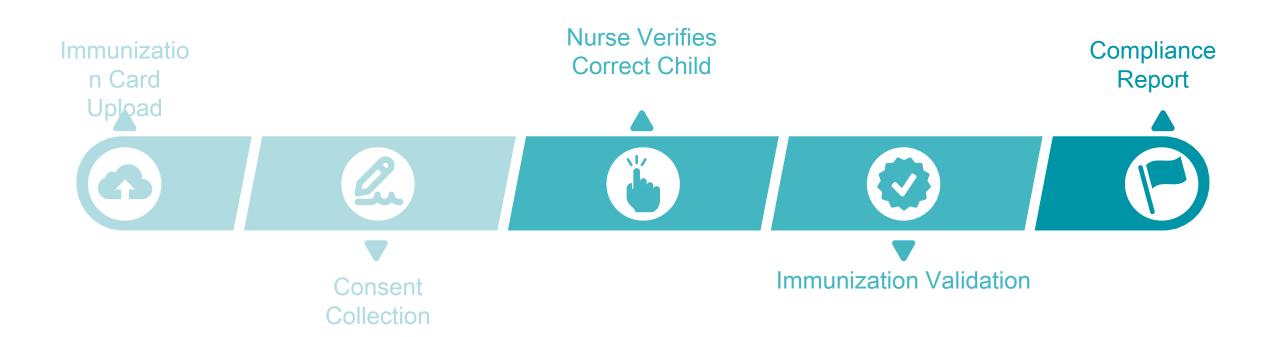




# Value to Parent

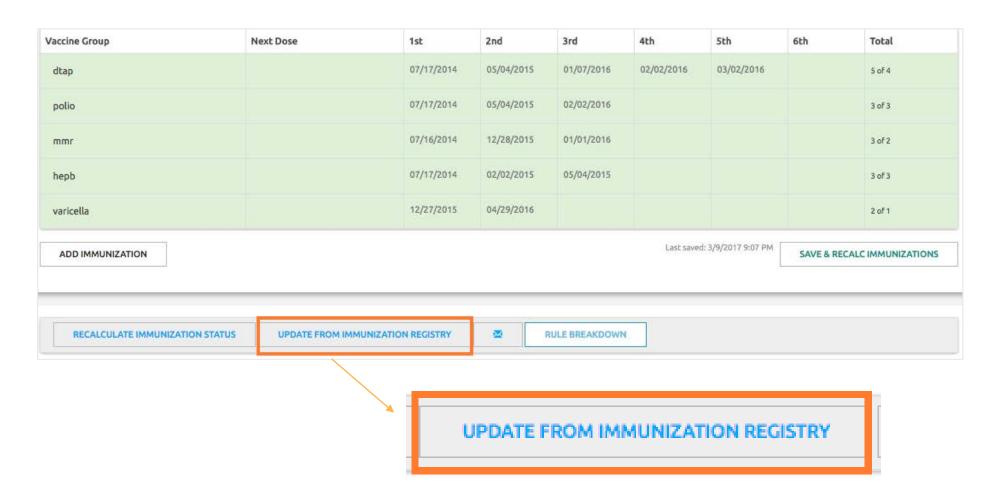
- It's right there with everything else
- No need for new password
- A trusted source

# Immunization Data CareDox Workflow



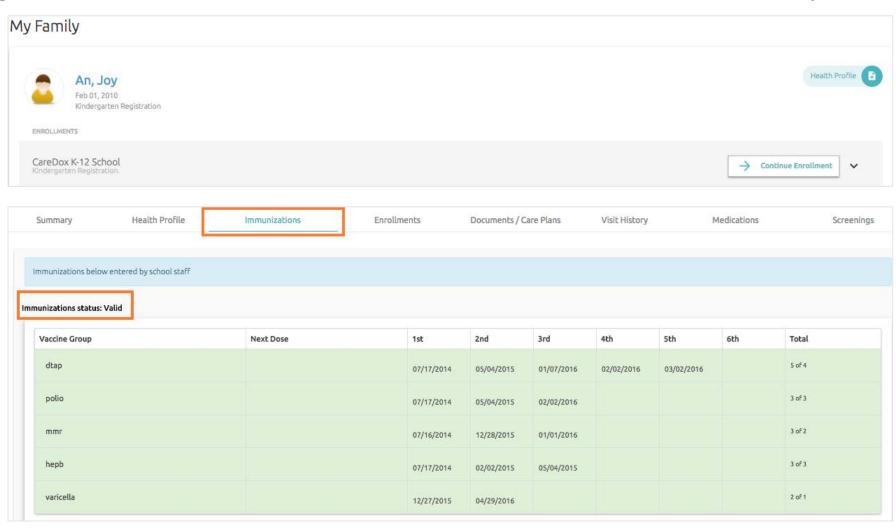
# Nurse/School Health Staff View

With a registry relationship the nurse can call the state database, ensuring they have the most up to date shot records



# Family health profile overview

Parents & guardians can view their child's immunization status via the CareDox family view





# Value to Registries

- Easier way to engage parents
- Designed to start with little extra work from IIS
- A trusted source
- Additional robust data source

# My Vaccine Record: Online Access to Immunization Records in the Citywide Immunization Registry

NYC Department of Health & Mental Hygiene Bureau of Immunization, Division of Disease Control #AIRA2017

# Citywide Immunization Registry (CIR)

- New York City's Immunization Information System (IIS)
- Started citywide since 1997
- Mandatory reporting of immunizations for children 0-18 years; reporting for adults >19 years (verbal or written consent)
- 6.5 million patient records; 88 million immunizations
- > 2,400 facilities report; >90% report regularly
- Web-based access previously limited to health care providers, authorized agencies (i.e., MCOs, WIC, schools, child care)
- My Vaccine Record: NEW! Online access for parents, legal guardians or custodians, and individuals

# Purpose of My Vaccine Record Web Application

- Goal: Give the public convenient access to their own and their children's immunization records
  - Access was previously limited to mail, fax, walk-in
  - Mail could take up to 2 weeks

 Other IISs currently offering online consumer access: Alaska, Arizona, Louisiana, Minnesota, Washington, West Virginia, Wisconsin, Puerto Rico, and more

# Legal considerations

 Parents and patients are authorized CIR users by NYS law and NYC Health Code

Parent, guardian, custodial relationship, or self

User must find a unique match

 Verify relationship using birth record or healthcare facility reporting information

# User Identity Verification and Authentication

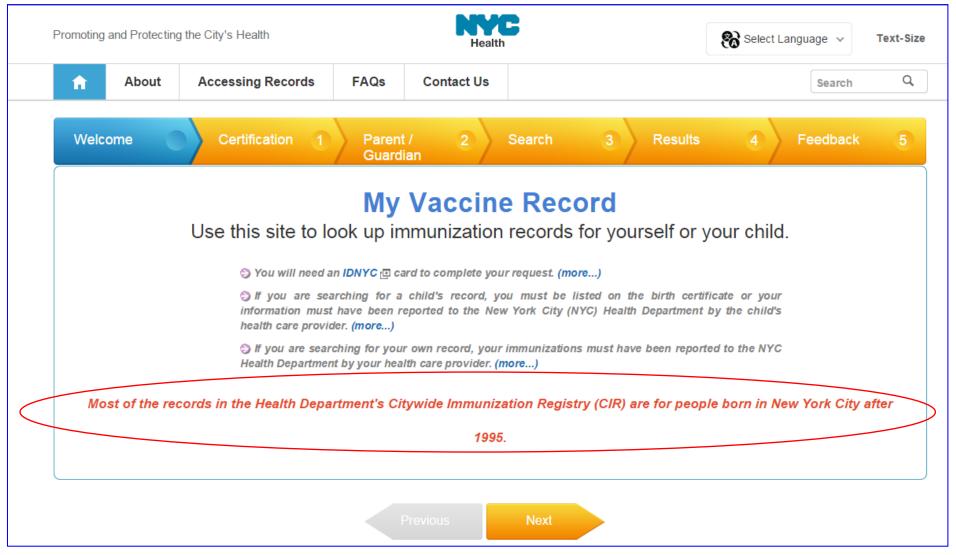
#### Issues:

- Need more than a user ID and password to initially establish identity; e.g. medical record number
- People forget user IDs and passwords and NYC population is 8.4 million
- Considered SSN; no budget for per-transaction cost
- Solution: IDNYC municipal ID program
  - Identity and address verified when person gets card
  - Authentication using first name, last name, DOB, and IDNYC card number

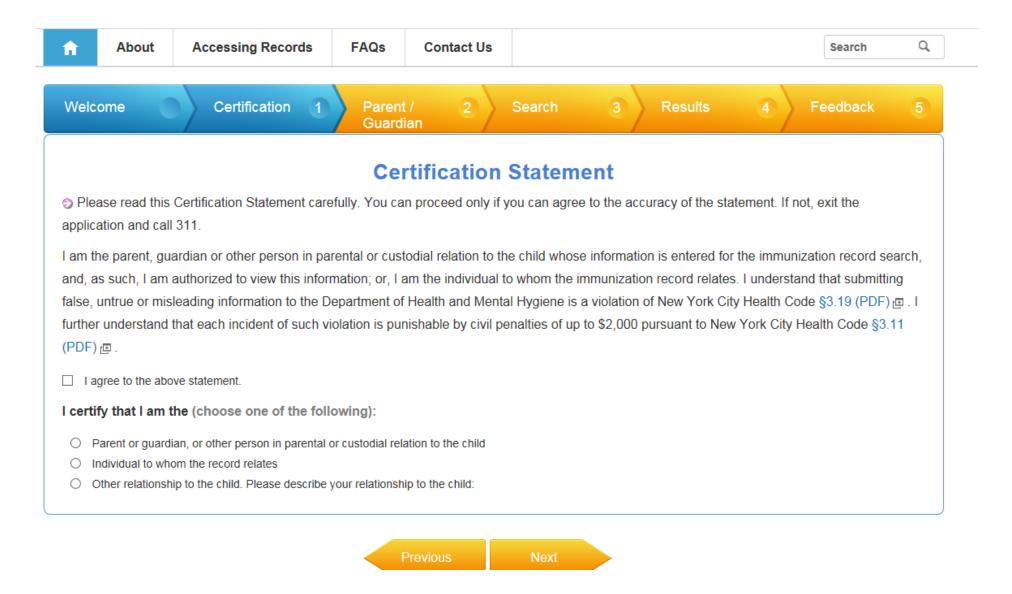
# My Vaccine Record Development

- Application workflow and Web page design
- IDNYC built card holder verification Web Service and CIR integrated it into Web application
- Re-used existing two-step search process from HL7 Web Service and Online Registry Web application
  - Step 1: Combination of exact match queries
  - Step 2: Probabilistic match
- Development, finalizing screens and language, testing, security scans, and launch

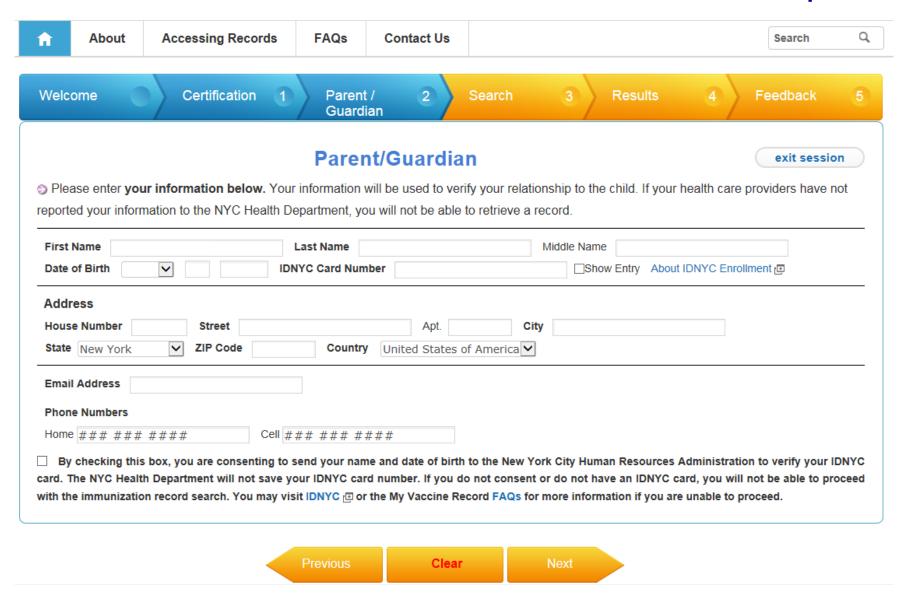
# My Vaccine Record <a href="https://nyc.gov/myvaccinerecord">nyc.gov/myvaccinerecord</a>



## Legal Requirements: Certification Statement – Step 1



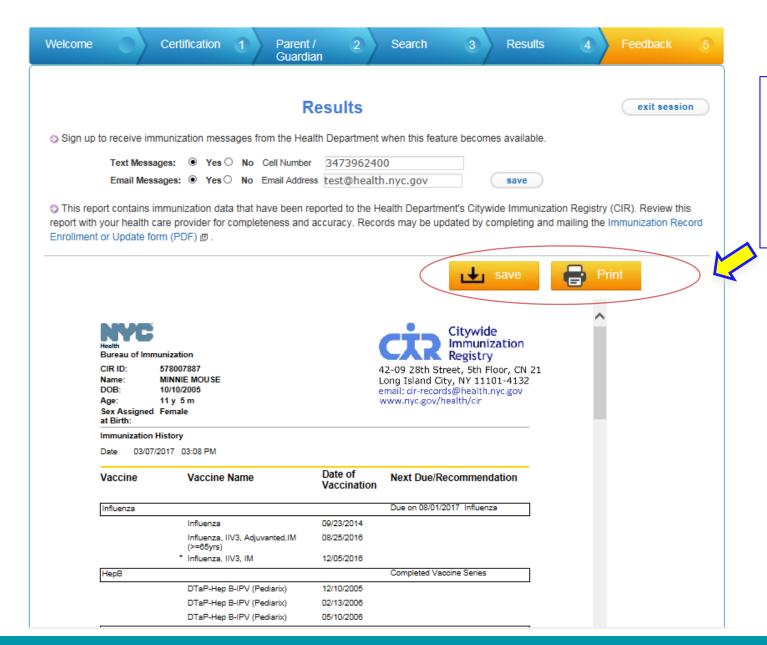
## Parent, Guardian, Custodian Verification – Step 2



# Immunization Record Search - Step 3

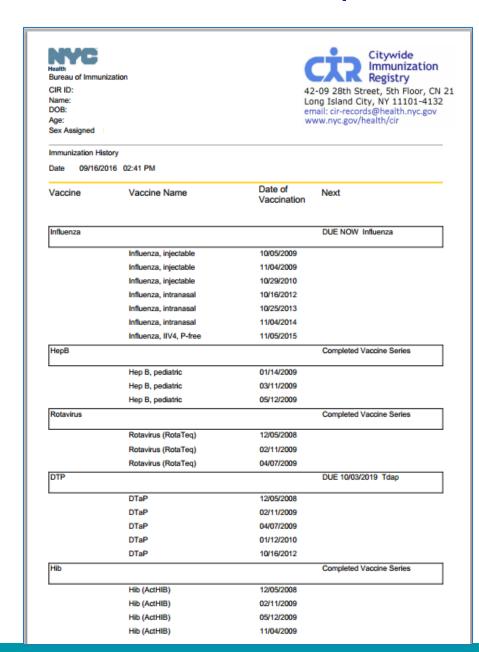
Welcome Certification 1	Parent / 2 Guardian	Search	3 Results	4 Feedback 5
	nization Reco	rd Search		exit session
	t Name		ddle Name	
IDNYC Card number	☐Show Entry About I	DNYC Enrollment 🖪		
Medicaid Number AA#####A (optional)	CIR	Number (optional)		
Please enter your mother's information: Mother's First Name Mother's Maiden Name (last name before first marriage) Mother's Date of Birth				
<ul> <li>Please enter an address reported to the health</li> <li>House Number</li> <li>Street Address</li> </ul>	care provider at the time	of vaccinations:	City	
State New York ZIP Code  If current address is different, please enter ZIP code, if is  If current address is outside of the U.S., please choose  By checking this box, you are consenting to send	the country: United States	####### s of America		dministration to verify your IDNYC
card. The NYC Health Department will not save your IDNYC card number. If you do not consent or do not have an IDNYC card, you will not be able to proceed with the immunization record search. You may visit IDNYC in or the My Vaccine Record FAQs for more information if you are unable to proceed.				

## Results - Step 4



- Download or Print.
- Enter cell phone number and or email for future messages from BOI.

# Sample Printed Record



CIR ID	Name .		DOB
Pediatric Pneum	nococcal (PCV & PPSV)		Recommended for high risk groups
	PCV7 (Prevnar7)	12/05/2008	
	PCV7 (Prevnar7)	02/11/2009	
	PCV7 (Prevnar7)	04/07/2009	
	PCV7 (Prevnar7)	01/12/2010	
	PCV13 (Prevnar 13)	03/24/2011	
Polio			Completed Vaccine Series
	Polio, injectable	01/14/2009	
	Polio, injectable	03/11/2009	
	Polio, injectable	04/07/2009	
	Polio, injectable	05/12/2009	
	* Polio, injectable	10/25/2013	
MMR			Completed Vaccine Series
	MMR	10/05/2009	
	MMR	10/16/2012	
Varicella			Completed Vaccine Series
	Varicella (chickenpox)	10/05/2009	
	Varicella (chickenpox)	10/25/2013	
HepA			Completed Vaccine Series
	Hep A, pediatric, 2-dose	01/12/2010	
	Hep A, pediatric, 2-dose	10/29/2010	
Meningococcal (	(MenACWY)		DUE 10/03/2019 MenACWY NOS
L B			DIE 1010010010 : TT
Human Papillom	navirus		DUE 10/03/2019 HPV
Adult Pneumoco	occal (PCV & PPSV)		Not recommended
Other			

Other languages: Spanish, Chinese (TC, SC)



#### **Promotion**

# My Vaccine Record Vaccine Records at Your Fingertips

Access your or your child's official records from the Citywide Immuniation Registry (CIR) for free.

Visit nyc.gov/myvaccinerecord to learn more.

Easy. Convenient. Secure.

#### My Vaccine Record

Keep track of your or your child's vaccines using My Vaccine Record.

Access official records anytime to give to child care centers, schools, camps, colleges or for international travel. The service is free and secure.

Visit nyc.gov/myvaccinerecord to learn more.

Most records in My Vaccine Record are for people born in NYC after 1995. If you cannot use My Vaccine Record, you can access your or your child's record by mailing a completed Immunization Record Request Application.

Call 311 to request to a copy of the application or visit nyc.gow/health and search immunization record request.

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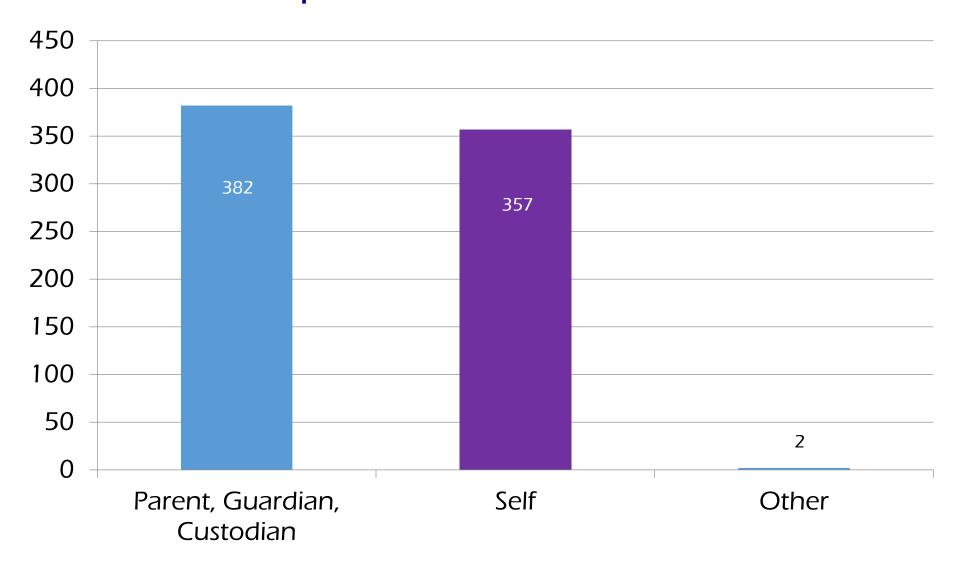


- Press release Jan.17, 2017:
   El Diario NY
- DOHMH Facebook
- DOHMH Twitter
- IDNYC
- Letter to Providers and forwarded press release Child Care Centers
- Sample one-page information sheet for office display with tear-off in English, Spanish, Chinese (TC and SC)

See back for Traditional Chinese. See back for Simplified Chinese.

# Results

# Record Requests Before Identity Verification Jan. 19, 2017 to April 5, 2017; N = 741



# Initial Usage Results by Age - Jan. 19, 2017 to April 5, 2017

	Total	Found	Not Found
0-18 years	166 (50%)	164 (99%)	2 (1%)
>=19 years	166 (50%)	89 (54%)	77 (46%)
Total	332	253	79

<sup>\*</sup>Among 320 verified IDNYC card holders

# Challenges

# IDNYC Verification - Jan. 19, 2017 to April 5, 2017

	Requests
IDNYC Verified	320 (45%)
IDNYC Not Verified	387 (54%)
Other	1 (<1%)
Total	708

#### Reasons for IDNYC verification failure:

- 1. Misspelling of first name and/or last name
- 2. Typing errors in 14-digit IDNYC
- 3. IDNYC registration error: Middle initial included in first name field

# Usage Results - Jan. 19, 2017 to April 5, 2017

	IDNYC Verified Requests
Relationship Verified	253 (77%)
Relationship Not Verified	76 (23%)
Total	329

Parent/guardian/custodial relationship established via contact information entered in MVR matches CIR data

## Immunization Record Search Results - Jan. 19, 2017 to April 5, 2017

	Immunization Records
Patient Found	253 (76%)
Patient Not Found	79(24%)
Total	332

125 records downloaded

136 records printed

## **Future Improvements**

- Increase public awareness of MVR, such as schools, child care centers, and pediatric care providers
- Improve identity and relationship verification
- Cell phone and E-mail verification and authentication
- Add survey to the feedback page
- Translate into additional languages



#### **Contact Information**

# Citywide Immunization Registry NYC Department of Health and Mental Hygiene

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nyc.gov/health/cir

Tel: (347) 396-2400

cir-records@health.nyc.gov

nyc.gov/myvaccinerecord







# **Discussion**





