Illinois State Immunization Registry
I-CARE: Overview and Policy Changes for 2013

Presented by: Annie Boesen, Manager
Immunization Initiatives
Illinois Chapter, American Academy of Pediatrics

Illinois Chapter, American Academy of Pediatrics (ICAAP) developed this program with funding and guidance from the Chicago and Illinois Departments of Public Health.
Training Objectives

- Importance of Immunization Registries
- Describe the benefits and features of I-CARE
- Outline the policy changes from the new opt-out law
- Share I-CARE numbers
- Demonstrate I-CARE implementation by reviewing individual modules
- Review data sharing process (electronic medical record systems & I-CARE)
- Discuss the recent VFC Updates to the registry
- Inform about financial incentives available for I-CARE users

IIS-Immunization Information Systems

- What is an IIS?
  - “Immunization information systems (IIS) are confidential, population-based, computerized databases that record all immunization doses administered by participating providers to persons residing within a given geopolitical area.”

- What does I-CARE stand for?
  - Illinois Comprehensive Automated Immunization Registry Exchange
  - Illinois’ only immunization registry
  - http://www.cdc.gov/vaccines/programs/iis/about.html
Importance of Immunization Registries

- Clinical care: provides consolidated immunization histories for use by a vaccination provider to determine forecasted/overdue vaccinations
- Population level: aggregates data for use in surveillance, program operations, and in public health to improve vaccination rates and reduce vaccine-preventable disease
- Online IIS ordering allows CDC to track use and distribution of VFC Vaccines
- IIS can exchange immunization information with immunization healthcare providers
  - Data exchange between IIS and other information systems helps ensure providers to work more efficiently.
- Vaccine management at the provider and immunization program levels
- Emergency preparedness & pandemic influenza planning

I-CARE Vision & Purpose

- Development of a unified and integrated electronic Statewide Immunization Information System (SIIS)
- Merge all immunization data into one secure centralized web-based Internet system
- Incorporate capabilities to simultaneously communicate data on immunization records among private health care providers (HCP), local health departments (LHD), other state health departments and the Illinois Department of Public Health (IDPH).
- Simplify immunization information reporting for health care providers.
- Facilitate rapid capture, storage and distribution of data.
Immunization Registry Benefits

симптомы Health Care Providers:
- Registries help providers fulfill school, camp, and child care immunization requirements
- Reduces paperwork & office-based computer entries
- Serves as a resource to introduce new schedules or vaccines

Public Health Officials:
- Disease Surveillance:
  - Target pockets of need
  - Compare incidences of infection
- Disease Outbreak
  - Evaluation
  - Control measures
- Aid in natural or man-made disaster

Parents:
- Provide backup record for children
- Reminder to seek care from their child’s medical home, where records are located

Additional Benefits and Features
- Stores immunization records
- Helps ensure correct & timely immunizations
- Reduces the number of phone calls you make to schools and day care centers during registration
- Facilitates introduction of new vaccines or changes in the vaccine schedule
- Maintains vaccine inventories
- Determines what proportion of children in your practice have been adequately immunized
- Provides HEDIS data collection for managed-care organizations
- Reinforces the concept of the medical home
I-CARE Development

- I-CARE pilot phase began in August 2007
- I-CARE production phase began December 2007
  - Moved TOTS providers over to I-CARE July 2008
  - Adding new I-CARE providers daily
  - Cornerstone Data Exchange daily
- I-CARE Version 2.0 released in August 2009

I-CARE Software Features

- No Software to purchase /download, all Web based
- User-friendly screens compatible with Internet Explorer version 7 or 8 or Mozilla Firefox browsers
- Easy to upgrade and maintain, just update browsers
- Real-time view of immunization records statewide
- Database not effected by PC failure, records reside at state database
- Registry checks and prevents errors by prompting if duplicate record or invalid shot to be added
Illinois Immunization Registry

I-CARE:
- Contains 43 million immunization records
- 5.2 million patient records in I-CARE (IL pop: 13 million)
- Primary goal of I-CARE:
  - Increase immunization coverage level of Illinois’ 2 year olds to 90%

I-CARE Users
As of January 2013
- Approximately 2,785 sites (clinic/sub-clinics)
  - 1,042 VFC Illinois Users/1,386 total
- 6,904 actual users (providers, office staff)
- Approximately 599 Hospitals Clinics
- 650 Walgreens Stores
- 145 Local Health Departments including Sub-Clinics
- 385 Women, Infant, Children (WIC) providers
- 914 School Employees with read-only access to I-CARE
- 324 School districts
  - 113 Chicago Public School District Nurses
  - 721 schools outside of CPS
I-CARE Basic Numbers

As of January 2013:

- 5,221,753 - number of patients in I-CARE database
  - 848,098 - under 6 years of age
  - 196,563 0-19 months
  - 178,365 19-35 months
  - 473,170 35 months - 6 years
- 301,365 - 6 years old (series completion)
- 354,761 - 11-12 years old
- 1,038,808 - 13-18 years old
- 474,239 - >50 years old

I-CARE vs Paper Charts

<table>
<thead>
<tr>
<th>Paper Charts</th>
<th>I-CARE</th>
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<tbody>
<tr>
<td>Hand completion of Immunization record for school/day-care</td>
<td>Easily prints out immunization records &amp; reports for schools and day-care facilities</td>
</tr>
<tr>
<td>Manually search for next dose(s) due</td>
<td>Analyzes immunization record &amp; indicates when doses are due</td>
</tr>
<tr>
<td>May miss opportunity to immunize</td>
<td>Helps prevent missed opportunities &amp; reduces over immunization</td>
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</tbody>
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Data Quality in I-CARE

- Bad data in...bad data out
- High Quality Data:
  - Accurate, timely, meaningful, and complete
- Maintaining data quality involves updating, standardizing, and de-duplicating records to create a single view of the data
- I-CARE interfaces with Cornerstone, the DHS case management data entry system
  - Often produces duplicates; shot records can be de-duplicated through I-CARE
  - Patient duplicates must be reported to I-CARE staff for administrative de-duplication

I-CARE User Agreement

- I have read and agree to abide by the I-CARE Security and Confidentiality Policy
- I understand that I-CARE data is confidential and may only be used as outlined in this form.
- I understand that my User ID and password are for my use only.
- I am responsible for safeguarding my User ID and password.
- I may not give my User ID or password to any other individual.
- I will not post my User ID or password.
- I understand that I will be required to change my password periodically.
- I agree not to leave the computer unattended when I have an I-CARE session open.
- I agree to log off and close the browser when I am finished with an I-CARE session.
Confidentiality and Security

- How secure is the I-CARE registry?
- I-CARE is designed to protect patient confidentiality while providing access to statewide registry information. Confidentiality is maintained through several security controls.
- Open access to the statewide registry is not allowed. Only registered I-CARE users have access to the data; information is available only on a need-to-know basis.
- An audit log at the statewide registry tracks all updates to patient records and which I-CARE user made each update. In addition, a site can only produce reports for patients seen at its clinic site.
Start with Training Videos

Searching for Patients
Patient Records: Edits

Add Current Shots
Shot Record: Detailed View

Adding Shot Refusals
4 Day Grace Period and I-CARE

According to the CDC: “Vaccine doses administered up to 4 days before the minimum interval or age can be counted as valid”

HOWEVER: I-CARE does not account for this grace period and will mark a dose INVALID if given too early.

If approved by the provider, a note can be sent to I-CARE to override an invalid shot given within the 4 day grace period.


Additional Health Information
School Physical Form

Vaccine Inventory Management
When in doubt….see user manual

Patient Consent for I-CARE Inclusion

- “Opt-Out” Registry: HB 1338-Signed by Governor Quinn
  July 14, 2011
  - Does not require parents/patients to sign a consent form for participation
  - Distribute with VIS statements or other consent forms
- Opt-out Registry makes data entry easier
  - Opt-out registries are more cost-effective for providers
  - Less administrative burden
- For patients already entered into I-CARE:
  - No need to provide consent form-assumed consented
- For new patients:
  - Provider should offer exemption form once
  - Provide fact sheet to parent/patient along with opt out form (fact sheet posted on I-CARE)
  - Keep a copy of the exemption form (exemption form posted on I-CARE)
  - A patient can chose to rescind their opt-out status at any time
Federal Laws regarding IISs

- Health Insurance Portability and Accountability Act (HIPAA)
  - HIPAA Privacy Rule governs use and disclosure of “protected health information”
  - Health care providers and payers are subject to HIPAA
  - IIS are NOT a “covered entity” subject to HIPAA
    - Each IIS should have written confidentiality and security policies that addresses the following issues.
Electronic Medical Record Users

For current EMR/EHR users:
- I-CARE supports HL7 versions 2.3.1 and 2.5.1. Check with your EMR vendor to verify compatibility with I-CARE.
- An immunization interface will need to be developed/purchased for your current EMR system to provide HL7 data exchange with I-CARE.
- For more information and to work with IDPH to ensure compatibility with your current EMR/HER system:
  - contact Robin Holding, robin.holding@illinois.gov

HL7 Data Exchange Status

- IDPH is implementing HL7 data exchange in two phases:
  - Phase 1 – One-way data transfer of unsolicited vaccine record updates in a batch mode using Secure File Transfer Protocol (SFTP).
  - Phase 2 – Real-time, bidirectional data exchange of vaccine record updates, queries and responses using HTTPS and web services. (Currently beta testing in phase 2)
- IDPH created HL7 Specifications that are distributed to I-CARE exchange partners and outline what is required from EHR/EMRs to transfer data to I-CARE.
- I-CARE currently in production with Phase 1 and 2 with several providers and vendors.
EMR Vendors Testing/In Production
Oct 2012

(T-tested, P-tested/production)

- Acumen
- Allscripts - P
- Amazing Charts - T
- Aprima
- AthenaNet - P
- Care360 - T
- Cerner - P
- Connexin - P
- CPSI - P
- DrFirst - T
- eClinicalWorks - P
- Epic - P
- eCW (same as eClinicalWorks)
- EHS
- E*Healthline - T
- e-MDs - P
- Encite - T
- Falcon HER
- GE Centricity - P
- Glenwood Systems - T
- Greenway - T

EMR Vendors Testing/In Production
Oct 2012

(T-tested, P-tested/production)

- Healthcare Management System - T
- Heartland
- Intergy by Sage - P
- MacPractice - T
- McKesson - P
- Meditech - P
- Medix Systems - T
- NextGen - P
- OminMD
- PracticeFusion - T
- PrognoCIS Bizmatics - P
- Qualifacts
- Questcare 360/Medplus - T
- RPMS
- Siemens/Soarions - T
- SOAPware - T
- Spring Charts - T
- STC
- SuiteMed Interface - P
- Surescripts - P
- Technical Dr
VFC Vaccine Ordering System (VTrcks-ExIS Interface)

- VFC Illinois Providers are required to track and order vaccine inventory in I-CARE.
- VFC-Chicago will be required to order through I-CARE in the future
- Will show accountability for use of federally funded VFC vaccine

VFC Vaccine Ordering System: Implementation Timeline

- **June 2012**: VFC Ordering Pilot with 17 VFC providers using I-CARE
- **Summer 2012-2013**: Begin enrolling all VFC-Illinois providers in I-CARE
- **December 2012**: All VFC-Illinois providers must be registered for I-CARE
  - Will not be able to order without proof of registration
- **March 2013**: At least 75% of providers enrolled in I-CARE
- **June 2013**: All enrolled VFC-Illinois providers ordering through I-CARE
VFC Vaccine Ordering System

Pre-requisites Before Ordering:
1. Register for I-CARE (process takes 2-3 weeks to complete)
2. Submit Refrigerator/Freezer Temperature logs for reporting period
3. Reconcile VFC vaccine in stock/on-hand
4. Confirm delivery hours for shipping vaccine
5. Proceed with Order

Add New Order Popup
Creating an Order (cont’d)

- The plus sign next to order quantity shows number of doses in each package.
- Must order multiple of this number.
- Example on left says "Packaging: 10". Therefore, you must order 10, 20, 30, etc. under Order Qty.

Add a Transaction
Temperature log/Appliances

Temperature Logs

- Temperatures for entire reporting period must be completed before an order will process
- AM and PM Temperatures must be recorded for each day
- Temperatures falling outside of normal operating ranges can delay an order.
Delivery Hours

Order Status

- **Draft**: initial order when created
- **Requested**: submitted order to IPC

**After IPC Receives Order:**
- **Approved**: IPC approved order
- **Ordered**: order has been placed
- **Review**: order is sent back to provider for revisions.
- **Rejected**: order was rejected
- **Canceled**: order was canceled

**After order has been processed:**
- **Shipped**: order has been shipped
- **Backorder**: order has been backordered

**Provider completes order:**
- **Complete**: order is complete
Completing the Order

Varicella

- Varicella isn’t shipped by McKesson
- Status will say transmitted
- Once you receive varivax, free text the lot number and exp date
- VFC lots are created for you in vaccine inventory in I-CARE for those you confirm receipt of
- Click Save
- Once all are ‘received’ order status is ‘completed’
Meaningful Use and I-CARE

- Eligible professionals registered for Medicaid EHR Incentive program:
  - Required to complete 15 core objectives, 5 menu objectives
  - Can qualify for up to $63,750 financial incentives over 6 year period
- Requirements are different depending on type of provider
  - Hospital, AHC, individual provider
- Cost of interfacing EMR/EHR will vary but long-term benefits may outweigh the cost
  - If you are eligible to receive Medicaid financial incentives PLAN AHEAD, START NOW!
- For more information on Medicaid Meaningful Use and how it can be achieved through using I-CARE:
  - [https://www.cms.gov/EHRIncentivePrograms/](https://www.cms.gov/EHRIncentivePrograms/)

Illinois Health Connect

- **Bonus Payment for High Performance**
  - Program from the Illinois Department of Healthcare and Family Services
  - Qualifying Illinois Health Connect Primary Care Providers (PCPs) eligible to receive annual bonus payments for each qualifying service under a bonus measurement.
- **The 2012 bonus payments will be $25.00 per patient**
  - PCP meets or exceeds the benchmark for a measured service
    - a bonus payment will be made for each patient that received the measured service.
    - PCP does not meet the benchmark, no bonus payment given for any patients, whether they received the service or not
Immunization Benchmarks

- **Benchmark to qualify for bonus payments**: at least 71% of enrolled 2 year olds appropriately immunized with combo 3:
  - (4) DTaP; (3) IPV; (2) MMR; (2) HepB; (1) chicken pox vaccine (VZV); (4) pneumococcal conjugate [(4-3-1-2-1-4)].
  - First HepB vaccine is often administered in the hospital and billed under the mother’s RIN. Two (2) more doses are required by HFS on or before the child’s 2nd birthday.

- **Measurement Period**: Birth through the child’s second birthday.

- **Qualifying Patient**:
  - Any child on the PCP’s Illinois Health Connect panel roster on December 1, 2012 that turns 24 months in calendar year 2012.

- For more information contact:
  
  CARI VONDERHAAR, R.N.
  Quality Assurance Manager
  Illinois Health Connect
  217-851-0996
  cvonderhaar@automated-health.com

Accessing I-CARE

- **I-CARE IS FREE!** With FREE Tech Support.

- Must have secure high speed Internet access and Adobe Reader

- Registration: Visit illinoisaap.org for step by step instructions on how to register for I-CARE

- Contact dph.icare@illinois.gov with questions about I-CARE
VFC Program Eligibility Change

- Eligible Children include
  - Children eligible for All Kids/Medicaid
  - Children with no health insurance
  - American Indian or Alaska Native Children
  - Children who are underinsured

- Underinsured children=those with private health insurance which does not cover vaccines
  - Underinsured children can only receive VFC vaccine at an FQHC, RHC or LHD

- Private insured patients are NOT eligible to receive VFC vaccine-must be vaccinated with privately acquired vaccine

Training Opportunities

Webinars:

- I-CARE: June 28, 2013 9:00-10:00am
- I-CARE: September 18, 2013 12:00-1:00pm
- I-CARE: December 3, 2013 3:00-4:00pm

To be added to the I-CARE training promotion list complete the following survey: [http://www.surveymonkey.com/s/I-CAREwaitinglist](http://www.surveymonkey.com/s/I-CAREwaitinglist)

- Pertussis, Influenza and Hepatitis B Immunization Strategies: Importance of Protecting your Patients
  - Tuesday, February 5, 2012 12:30-1:30pm
  - Registration online: illinois AAP.org
Lab Training

January 25, 2013 from 9:00 am-12:00 pm
Location: Lake Land College Kluthe Center for Higher Education and Technology
1204 Network Centre Blvd.
Effingham, IL 62401
Registration-Only 20 spots available

January 25, 2013 from 1:30 pm-4:30 pm
Location: Lake Land College Kluthe Center for Higher Education and Technology
1204 Network Centre Blvd.
Effingham, IL 62401
Registration-Only 20 spots available

February 8, 2013 from 8:30 am-11:30 am
Location: Lincoln Center of Heartland Community College
620 Broadway St.
Lincoln, IL 62656
Registration-Only 20 spots available

February 8, 2013 from 1:00 pm-4:00 pm
Location: Lincoln Center of Heartland Community College
620 Broadway St.
Lincoln, IL 62656
Registration-Only 20 spots available

Contact Information

- Illinois Chapter, American Academy of Pediatrics
  Annie Boesen, Manager, Immunization Initiatives
  312/733-1026, ext. 216 or aboesen@illinoisaap.com
  Cristy Wedemeyer, Consultant, Immunization Initiatives
  cwed01@yahoo.com

- Illinois Department of Public Health
  Teri Nicholson, Registry Administrator
  217/785-1455 or Teri.Nicholson@illinois.gov
  Dph.icare@illinois.gov
  Help Desk: 800/366-8768
QUESTIONS?