
A Systems Perspective on Dose-Level Eligibility

AIRA 2013 National Meeting
October 7, 2013
Denver, CO

Oregon
Health
Authority

OREGON IMMUNIZATION PROGRAM
Oregon Public Health Division

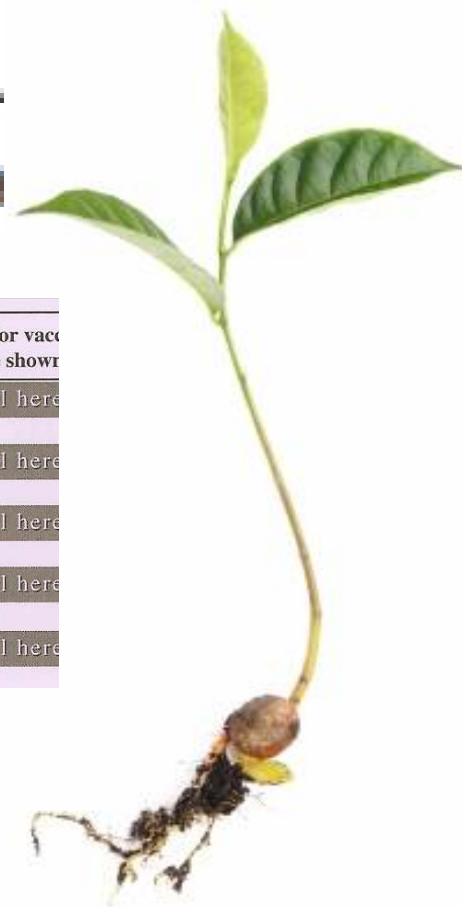
ALERT IIS and Oregon VFC: Growing Together



- **1996 Public Private Partnership**
- **Started accepting eligibility codes immediately**



Date vaccine given:			Please use only for vaccine date shown
Mm	dd	yyyy	
Vaccine eligibility: (must check one)			Bar code label here
<input type="checkbox"/> Medicaid/OHP			Bar code label here
<input type="checkbox"/> Amer. Indian/ Alaskan Native			Bar code label here
<input type="checkbox"/> No Insurance			Bar code label here
<input type="checkbox"/> Underinsured			Bar code label here
<input type="checkbox"/> Copay unaffordable			Bar code label here
<input type="checkbox"/> Billable (Fully Insured)			Bar code label here
<input type="checkbox"/> Locally Owned			Bar code label here
<input type="checkbox"/> Other			Bar code label here
<input type="checkbox"/> Unknown			Bar code label here
<input type="checkbox"/> History Only (Shots previously given)			Bar code label here



ALERT IIS and Oregon VFC: Growing Together



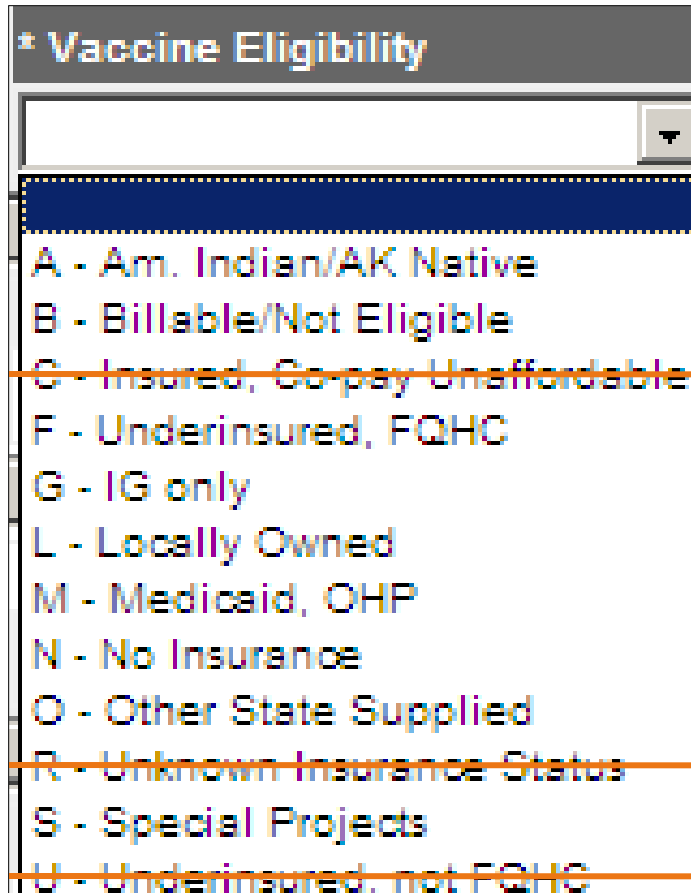
- 2010 Transitioned to new IIS
- Built into new IIS dose level eligibility functionality
- Vaccine eligibility code is required for VFC participating clinics



The Numbers: Who we serve and what we do

- 2,606 open ALERT IIS organizations
- Nearly 600 VFC clinics
- 746 Schools
- 1,280 Children's Facilities

Dose Level Eligibility: User Interface



- Org settings – rules determine what codes are available.
- Removed patient/visit level eligibility and replaced with dose level.
- Old code set was large to capture all nuances. Now it is cut back to be aligned with national specs.

Dose Level Eligibility: Data Exchange

- ALERT IIS Onboarding team works with sites to send vaccine eligibility codes via data exchange (flat and HL7)
- Onboarding team must work closely with the clinic and IT staff to determine the best way to get dose level eligibility codes
- Eligibility data at dose level is submitted in OBX segment
 - Some EHRs will not capture at dose level and are inferring from patient or visit level (note: this is not best practice)
- Oregon business rules will reject a mismatched eligibility code on an immunization that is not publicly supplied (yellow fever)



In Oregon, dose-level eligibility is
essential to our work

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Example - one patient with more than one eligibility at a single visit

You take your 16 year old son to his doctor for a well-adolescent visit. His doctor recommends that he receive Tdap, HPV, and flu today. Your insurance covers Tdap and flu, but it does not yet cover HPV for males.

Your son is insured for Tdap and flu, and he is underinsured for HPV.

Example - one patient with more than one eligibility at a single visit

OIP runs a project with one-time CDC funds to vaccinate uninsured women with HPV vaccine.

An uninsured 19 year old goes to her college Health Services to receive the MMR she needs for college entry.

Health Services gives the MMR and codes her as 317-eligible for this dose. Because Health Services participates in the HPV project, they also administer HPV and code it as Special Project vaccine.

In Oregon, dose-level eligibility is essential to our work

Accountability

- Our expectation and our goal is dose-level accountability in ALERT IIS.
- Today: our visibility into accountability is a hodge-podge process
- The future: Oregon Vaccine Stewardship Legislation and the ALERT IIS Accountability Report

Vaccine Stewardship Legislation

- Legislation passed in 2011 that requires every clinic that receives state-supplied vaccine to meet the following IIS requirements:
 - Report every dose to ALERT IIS for every patient
 - Report every dose with a vaccine eligibility code
 - Report every dose within 14 days of administration
 - Use the inventory and ordering module

IIS Reports Used by VFC

Vaccines For Children For Dates Between 01/01/2013 and 01/31/2013

Report run on: 03/08/2013 7:21 AM

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0008 CO HEALTH DEPT - 000006

Key: Vaccine Eligibility Code		
M - Medicaid, OHP	U - Underinsured, not FQHC	B - Billable/Not Eligible
N - No Insurance	C - Insured, Co-pay Unaffordable	L - Locally Owned
A - Am. Indian/AK Native	O - Other State Supplied	S - Special Projects
F - Underinsured, FQHC	R - Unknown Insurance Status	G - IG only
		NS - Not Specified

(Age)	M	N	A	F	U	C	O	R	B	L	S	G	NS	Total
<1	3	0	0	0	0	0	0	0	0	0	0	0	0	3
1-6	11	7	0	0	0	0	0	0	0	1	1	0	0	20
7-18	18	6	1	0	0	0	1	0	0	1	3	0	0	30
19+	0	0	0	0	0	0	0	0	1	13	8	0	0	22
Total	32	13	1	0	0	0	1	0	1	15	12	0	0	75

Vaccines for Children

For Dates Between 01/01/2013 and 01/31/2013

Report run on: 03/08/2013 7:22 AM

Organizer

Key: Vaccine Eligibility Code		
M - Medicaid, OHP	U - Underinsured, not FQHC	B - Billable/Not Eligible
N - No Insurance	C - Insured, Co-pay Unaffordable	L - Locally Owned
A - Am. Indian/AK Native	O - Other State Supplied	S - Special Projects
F - Underinsured, FQHC	R - Unknown Insurance Status	G - IG only
		NS - Not Specified

Vaccine	M	N	A	F	U	C	O	R	B	L	S	G	NS	Total
DTP/aP-HepB-	4	0	0	0	0	0	0	0	0	0	0	0	0	4
Polio	1	2	0	0	0	0	0	0	0	0	0	0	0	3
PneumoConjuga	2	0	0	0	0	0	0	0	0	0	0	0	0	2
Hib	3	0	0	0	0	0	0	0	0	0	0	0	0	3
HepB	0	4	0	0	0	0	0	0	0	2	0	0	0	6
Td/Tdap	5	4	1	0	0	0	1	0	1	11	6	0	0	29
HepA	6	1	0	0	0	0	0	0	0	1	0	0	0	8
DTP/aP-Polio	3	4	0	0	0	0	0	0	0	0	0	0	0	7
HPV	1	0	0	0	0	0	0	0	0	0	0	0	0	1
Influenza-seasnl	15	3	0	0	0	0	0	0	0	1	6	0	0	26
Varicella	4	1	0	0	0	0	0	0	0	0	0	0	0	6
MMR	4	6	0	0	0	0	0	0	0	0	0	0	0	10
Total	48	25	1	0	0	0	1	0	1	15	12	0	0	103

Inventory Management in ALERT IIS



Production Region 3.3.0

Query Only

view patient report

Reports

reminder / recall

check reminder status

check reminder list

manage custom letters

cocasa extract

check request status

doses administered

group patients

check group status

vaccine eligibility

check vaccine elig

status

assessment report

check assessment

benchmark report

check benchmark

ad hoc list report

ad hoc count report

[home](#)[manage access/account](#)[forms](#)[related links](#)[logout](#)[help desk](#)

organization **AMJEN MEDICAL CLINIC** • user **Lee Schrauben** • role **State Immunization Staff**

Add Vaccine Inventory Information

Site: AMJEN MEDICAL CLINIC

Save

Trade Name:



Cancel

Manufacturer:



NDC:

Packaging:

Lot Number:

Dose:

Expiration Date:



Funding Source:

Lot Active:

Quantity on Hand:

Cost Per Dose (\$):

Inventory Transactions Report

home manage access/account forms related links logout help desk

organization • user Jenne Mckibben • role Super User (Provider and LHD)

Vaccine Transactions for: AL1509 - 000006

Date Entered [From]: To:

Date shot was given [From]: To:

User Name: All User Names

Transaction Type: All Transaction Types

Site Name:

Trade Name/Lot Number/Funding Source:

Display Last:

View

Cancel

All Transaction Types

- Receipt of Inventory
- Error Correction
- Doses Reconstituted
- Doses Returned
- Doses Transferred
- Immunization given
- Immunization deleted
- Doses Recalled
- Doses Administered
- Borrowed In
- Borrowed Out
- Borrowed Imm Given
- Spoilage reported by provider
- Expiration reported by Provider
- Lost or damaged in transit to Provider
- Failure to store properly upon receipt by Provider
- Refrigeration failure reported by Provider
- Lost or unaccounted for in Provider inventory
- Other - Not Usable, reported by Provider



Vaccine Accountability Report – IR Physicians

AL3211 VFC PIN 123321

Report timeframe: Quarter 1, 2012 – Quarter 1, 2013

Report date: 6/1/2013

Vaccine Funding Source: Both

This report only reflects data reported to ALERT IIS during the report timeframe and does not include influenza vaccine.

Accountability Data By Vaccine Group

VFC PIN	Organization Name	County	Vaccine Group	+ Starting Inventory	+ Doses Received	- Doses Reported	- Doses Expired	- Doses Spoiled	- Doses Wasted	- Doses Transferred Out	+ Ending Inventory	Accounted for Doses	Accounted for %
Z90090	IR Physicians	Lane	DTP/aP	19	400	390	10	1	4	0	10	415	99.05%
Z90090	IR Physicians	Lane	DTP/aP-Hib	21	200	187	0	10	12	0	5	214	96.83%
Z90090	IR Physicians	Lane	HepA	88	100	132	2	1	1	0	35	171	90.96%
Z90090	IR Physicians	Lane	HepA-HepB	65	100	120	0	0	17	0	10	147	89.09%
Z90090	IR Physicians	Lane	HepB	93	100	180	5	3	1	0	3	192	99.48%
Z90090	IR Physicians	Lane	Hib	140	112	180	25	4	3	10	28	250	99.21%
			...										
Z90090	IR Physicians	Lane	ALL	426	1012	1189	42	19	38	10	91	1389	96.59%

In Oregon, dose-level eligibility is essential to our work

Billables

- We provide vaccine to public clinics to administer to their insured clients. Public clinics bill insurance, and OIP bills public clinics quarterly to recoup these costs.
- Dose-level eligibility ensures that we do not bill unless the public clinic collected funds from insurance.

Billables Report in ALERT IIS

Billing Report Request

Select Report Time Period

☒ Quarter Quarter 4 Year 2012

☐ Begin Month Year End Month Year

Select Billing Organization

☒ Use Single Organization ☐ Include Satellite Organizations

Enter Memo Presentation Information...

VFC Manager: Admin. Specialist:

Select Included Reports

☐ Include Memo

☒ Include Summary

☒ Include Detail

Billables Report in ALERT IIS

Billable Vaccination Detail Listing

Quarter: 10/01/2012 - 12/31/2012

Organization:

Organization VFC PIN:

Satellite: N/A

Satellite VFC PIN: N/A

Vaccine: Tdap

Brand: Tdap > 7 years, NOS

Price: \$ 35.25

State ID
10974150

Vaccination Date
11/15/2012

Client Name

Date of Birth
08/05/1947

Total Tdap > 7 years, NOS Vaccinations: 1.0 Cost: \$ 35.25

=====

Total Tdap > 7 years, NOS Vaccinations: 1.0 Cost: \$ 35.25

=====

Total Tdap Vaccinations: 1.0 Cost: \$ 35.25

=====

Total Vaccinations: 1.0 Cost: \$ 35.25

=====

Agency Total Vaccinations: 1.0 Cost: \$ 35.25

In Oregon, dose-level eligibility is essential to our work

Special Projects

- Occasional limited, one-time only funding from CDC to purchase vaccines
- Oregon uses funding for Special Projects to push vaccine out to underserved communities
- Clinics have access to an Oregon-specific eligibility code “S”
 - Allows clinics to account for Special Project vaccine and regular inventory vaccine administered at the same visit.

Inventory, order
sent to VTrackS

VTrackS

Order shipping data
imported in to ALERT IIS

ALERT IIS

Data Exchange
Clinics

EHR

User Interface
Clinics

- Enter Immunizations given (eligibility at dose level)
- Deduct from Inventory

- Reconcile Inventory
- Place Order
- Enter Inventory (private – manually, state – via transfer)

Deduct
from
Inventory

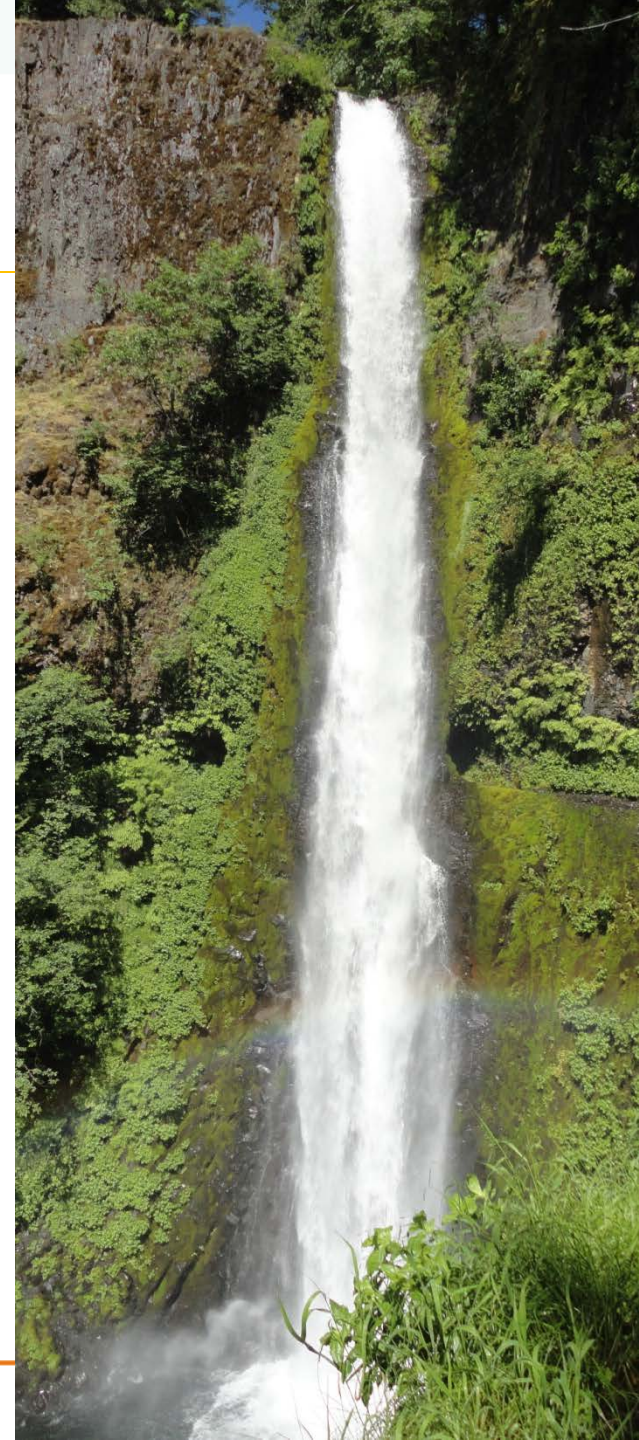
- Enter immunizations given (eligibility at dose or visit level)
- Enter inventory (state and private)

Challenges to dose-level eligibility

- Often requires more insurance screening and coordination with the person pulling vaccine out of the refrigerator
- Many EHRs or billing systems are not able, at this point, to truly capture dose-level eligibility
- HL7 2.5.1 specs include dose level eligibility differences across IISs
- One little change affects the whole system
- Often faced with unanticipated changes

Benefits to dose-level eligibility

- Dose-level eligibility = complete accountability
- Ability to run a Billables program
- Ability to implement Special Projects
- Huge advantages for conducting VFC site visits
 - OIP staff armed with data
 - OIP staff educate clinic staff on how to get the data for themselves



Benefits of collaboration

- Symbiotic relationship – ALERT IIS is the backbone of almost all OIP activities. Because of this, all program areas promote the use of ALERT, which helps ensure the accuracy and completeness of data in ALERT.



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