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# Climbing Mountains: IIS integration with diverse immunization programs and projects



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# Background

- In 2004 , the Oregon Immunization Program began to integrate our IIS (ALERT IIS) with our entire shop
- We have succeeded in nearing the peak of that tall, rugged, beautiful, and sometimes dangerous climb
- The summit is near, but perhaps less achievable than we imagined

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# Background

- 2 types of integration
  - Integration of features into the IIS
  - Integration of program management

For us in Oregon the first is where we are going, the second is what we need to get there.

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# Know your route before you go: where we're going



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# Know your route before you go

Design your own roadmap: establish concrete short, medium, and long term goals for program integration

- Short
  - Integration of VFC and IIS provider management
  - Inventory and ordering in the IIS
- Medium
  - Accountability tools in the IIS
  - AFIX/IIS integration
  - Flu vaccine management tools
  - Data exchange reports
- Long
  - Integration of research and surveillance tools
  - Integration of IIS and school law tools
  - Wasted spoiled and expired vaccine reporting



## Get your gear together: what we need to get there



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# Get your gear together

- Communal IIS and Immunization Program Governance
  - Program council
    - All program managers and team leads, including IIS, VFC, and other program leadership
    - IIS staff are key part of broader immunization program governance
  - Change Control Team
    - 6-12 member board that coordinates IIS development
    - VFC program and other programs take part in IIS governance
- Immunization Policy Advisory Team
  - Outside stakeholders and supporters that enable IIS/program integration
- Joint mission and vision
  - All team members share a unified vision and mission, with a clear route map to get there

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# Early success





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# Early success

Provider options to meet basic VFC requirements:

- Changing of primary contacts
- Easy modification to delivery times
- ExIS-VTrckS interface for vaccine ordering, management, and inventory control
- Mandatory data submission for VFC providers and pharmacies
- Access to immunization records for a far-broader audience than medical providers (e.g. schools, daycares, hospitals, occupational health, pharmacy)

## Individual Contacts




### Contact Listing

Role	Name	E-Mail	Edit	Del
Primary VFC/AFIX	AL KORLOFF	<a href="mailto:MICHAEL.DOLEMAN@STATE.OR.US">MICHAEL.DOLEMAN@STATE.OR.US</a>		
Address: 800 NE OREGON ST PORTLAND OR 97214 -		Geocoded: No		
Phone: (503)704-2794		Facsimile:		

### Add Contact

* Role	<input type="text"/>	Address 1	<input type="text" value="800 NE OREGON ST"/>	<input type="button" value="Apply"/>
* Last Name	<input type="text"/>	Address 2	<input type="text"/>	<input type="button" value="Cancel"/>
* First Name	<input type="text"/>	PO Box	<input type="text"/>	
Middle Name	<input type="text"/>	City	<input type="text" value="PORTLAND"/>	
Email	<input type="text" value="alertiis@state.or.us"/>	State	<input type="text" value="OR"/>	Zip
Telephone	<input type="text" value="503"/> - <input type="text" value="999"/> - <input type="text" value="9999"/>			<input type="text" value="97214"/> +4 <input type="text"/>
Ext	<input type="text"/>	Facsimile	<input type="text" value="503"/> - <input type="text" value="888"/> - <input type="text" value="8888"/>	
		Ext	<input type="text"/>	

### State Supplied Vaccine Profile:

VFC Pin	<input type="text" value="Test10"/>	Varicella Certified	<input checked="" type="radio"/> Yes <input type="radio"/> No
VFC Status	<input type="text" value="Active"/>	VFC Only	<input type="radio"/> Yes <input checked="" type="radio"/> No
Billing Begin Date	<input type="text"/> 	End Date	<input type="text"/> 
Tier   Frequency	<input type="text" value="B1 - Bimonthly Medium"/>	* Original Certification Date (VFC)	<input type="text" value="12/12/2012"/> 

### Delivery Days and Times

	Delivery Window 1		Delivery Window 2	
<input type="checkbox"/> Monday	<input type="text"/>	To <input type="text"/>	<input type="text"/>	To <input type="text"/>
<input checked="" type="checkbox"/> Tuesday	<input type="text" value="8:00 AM"/>	To <input type="text" value="12:00 PM"/>	<input type="text" value="2:00 PM"/>	To <input type="text" value="4:00 PM"/>
<input checked="" type="checkbox"/> Wednesday	<input type="text" value="8:00 AM"/>	To <input type="text" value="12:00 PM"/>	<input type="text" value="2:00 PM"/>	To <input type="text" value="5:00 PM"/>
<input checked="" type="checkbox"/> Thursday	<input type="text" value="9:00 AM"/>	To <input type="text" value="12:00 PM"/>	<input type="text" value="2:00 PM"/>	To <input type="text" value="4:00 PM"/>
<input type="checkbox"/> Friday	<input type="text"/>	To <input type="text"/>	<input type="text"/>	To <input type="text"/>

# **Pediatric State-Supplied Vaccine**

# Doses	Vaccine	Trade Name	Manufacturer	Packaging	NDC	Min Order Qty	Doses Given	Doses on Hand	Lot Numbers
<input type="text"/>	DTaP	Infanrix	GlaxoSmithKline	10X1 VIALS	58160-0810-11	10			
<input type="text"/>	DTaP	Infanrix	GlaxoSmithKline	10X1 SYRINGES	58160-0810-52	10			
<input type="text"/>	DTaP,5 pertussis antigens	DAPTACEL	Sanofi Pasteur Inc.	10X1 VIALS	49281-0286-10	10			
<input type="text"/>	DTaP-HepB-IPV	Pediarix	GlaxoSmithKline	10X1 SYRINGES	58160-0811-52	10			
<input type="text"/>	DTaP-IPV	Kinrix	GlaxoSmithKline	10X1 VIALS	58160-0812-11	10			
<input type="text"/>	DTaP-IPV	Kinrix	GlaxoSmithKline	10X1 SRYINGES	58160-0812-52	10			
<input type="text"/>	DTaP-IPV	Quadracel	Sanofi Pasteur Inc.	1X10 VIALS	49281-0562-10	10			
<input type="text"/>	DTaP-IPV/Hib	Pentacel	Sanofi Pasteur Inc.	5X1 VIALS	49281-0510-05	5			
<input type="text"/>	HPV9	Gardasil 9	Merck & Co., Inc.	10X1 VIALS	00006-4119-03	10			
<input type="text"/>	HepA-Ped 2 Dose	Havrix-Peds 2 Dose	GlaxoSmithKline	10X1 VIALS	58160-0825-11	10			
<input type="text"/>	HepA-Ped 2 Dose	Havrix-Peds 2 Dose	GlaxoSmithKline	10X1 SYRINGES	58160-0825-52	10			
<input type="text"/>	HepA-Ped 2 Dose	VAQTA-Peds 2 Dose	Merck & Co., Inc.	10X1 VIALS	00006-4831-41	10			
<input type="text"/>	HepB-Peds	Engerix-B Peds	GlaxoSmithKline	10X1 SYRINGES	58160-0820-52	10			
<input type="text"/>	HepB-Peds	Recombivax Peds	Merck & Co., Inc.	10X1 VIALS	00006-4981-00	10			

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# Hard fought accomplishments



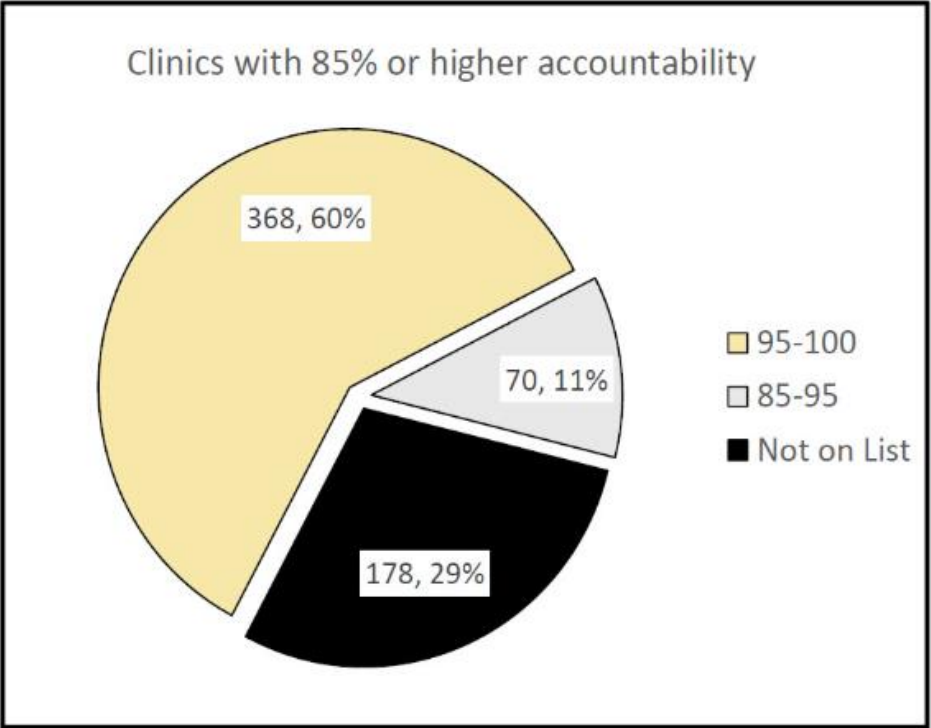


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# Hard fought accomplishments

- Accountability and Billables reporting functionality
- Creation and publication of quarterly “Excellence in Inventory Management” awards for vaccine accountability (which our VFC providers clamor to achieve)
- AFIX assessment functionality
- Seasonal flu vaccine pre-booking and delivery controls
- Data exchange with unique entities (ORPHEUS)
- Timely and complete data capture allowing research and epidemiology staff to conduct and publish research, and perform rapid response evaluation

**CONGRATULATIONS** to the [clinics](#) who made the list this quarter for achieving vaccine accounting excellence. To acknowledge the hard work of those clinics that are close to meeting the requirement, we report two lists: a gold and a silver category. The gold category lists clinics who have met or exceeded the 95% inventory accountability standard. The silver category lists those clinics who met 85-95% accountability. Your effort improves patient immunization records and assures our federal partners that vaccines are getting to the patients who are entitled to them.



# The AFIX Product

AFIX Cohort

Flexible Cohort

List of Scheduled Jobs

System Monitor

Master Rate Report

Provider: AMJEN MEDICAL CLINIC

Select Provider

Type:

Select ▼

As of  
Date:

08/12/2018

## Vaccine Request Status

Take doses from current vaccine allocation...

Draw Down

Change previously requested vaccine amounts...

Edit Vaccine Request

Return to the previous screen...

Cancel

## Vaccine Request List

Event 2018-19 Flu Season ▼

Select	Trade Name	Packaging	Manufacturer	Type	Initiating User	Request Date	Request Status	Place in Queue	Total Amt Requested	Total Amt Allocated	Total Drawn Down	Amt Available Now
<input type="checkbox"/>	FluMist Quadrivalent	10X1 SPRAYER 2018-19	Medimmune, Inc.	VFC	Maria Yopez	07/12/2018	Prebooked	33 of 88	100	<u>0</u>	<u>0</u>	0
<input type="checkbox"/>	Fluzone Quad MDV	10 DOSE VIAL 2018-19	Sanofi Pasteur Inc.	VFC	Terri Heinz	01/22/2018	Prebooked	13 of 51	1400	<u>0</u>	<u>0</u>	0
<input type="checkbox"/>	Fluzone Quad PF 0.25mL	10X1 SYRINGES 2018-19	Sanofi Pasteur Inc.	VFC	Terri Heinz	01/22/2018	Prebooked	80 of 257	1100	<u>0</u>	<u>0</u>	0
<input type="checkbox"/>	Fluzone Quad PF 0.5mL	10X1 VIALS 2018-19	Sanofi Pasteur Inc.	VFC	Terri Heinz	01/22/2018	Prebooked	13 of 46	100	<u>0</u>	<u>0</u>	0

## Vaccine Accountability Report - THE CHILDRENS CLINIC OF KLAMATH

Org Code: AL0383

VFC PIN: P00538

Report timeframe: Month 1, 2018 - Month 5, 2018

Report date: 06/07/2018

Funding Source: Both

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

## Detailed Accountability Data by Vaccine Group and Lot

Vaccine Group	Lot Number	+ Starting Inventory	+ Doses Received	- Doses Reported	- Doses Expired	- Doses Spoiled	- Doses Wasted	- Doses Transferred Out	+ Ending Inventory	Accounted for Doses	Accounted for %
DTP/aP	C5065AA	0	10	0	0	0	0	0	0	0	0.00%
DTP/aP	C5157AA	3	0	0	0	0	0	0	0	0	0.00%
DTP/aP	C5169AA	6	0	-6	0	0	0	0	0	6	100.00%
DTP/aP	C5171AA	10	10	-4	0	0	0	0	6	10	50.00%
DTP/aP	C5180BA	10	0	-6	0	0	0	0	0	6	60.00%
DTP/aP	C5190AA	0	10	0	0	0	0	0	10	10	100.00%
DTP/aP	C5206AA	0	20	0	0	0	0	0	20	20	100.00%
<b>DTP/aP</b>	<b>ALL</b>	<b>29</b>	<b>50</b>	<b>-16</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>36</b>	<b>52</b>	<b>65.82%</b>





**The summit is in sight**

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# The summit is in sight

Most mountains get steeper the closer to the top you get

We have few remaining areas of integration

- Integration of research and surveillance tools
- Integration of IIS and school law tools
- Further integration with VFC and AFIX programs (most of the work is done)

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## The crux of the climb



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# The crux of the climb

The challenges are fierce:

- Capacity to further expand IIS functionality with limited funds, contract timelines, staffing limitations, and conflicting priorities
- Our own internal differences in program priorities, combined with the challenges of rapid change and growth can put a pall on enthusiasm and require courage to take the final steps
- Rapidly changing requirements and top down structure of VFC and AFIX programs may impose demands on IIS development funds
- Helpdesk integration





**Looking back from  
high places**



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# Looking back from high places

- Establish a set of specific IIS features that other program areas need and prioritize as short, medium, and long term objectives
- Develop a shared governance structure that allows other program staff to engage with IIS decision making, but also brings IIS staff into overall program management
- Identify barriers before you get there:
  - Funding, contracting
  - Changing federal program requirements
  - Differing program priorities and work styles
- Know what factors might assist integration:
  - Outside partners and stakeholders
  - Key staff and roles
  - New funding opportunities

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**Questions?**