

ALERT IIS
Vaccine Inventory Management & Accountability

(...plus a lot of info on borrowing...)



OIP Orientation for Public VFC Providers
November 7, 2019 Erin Corrigan, MPH

Vaccine Inventory Management & the Oregon VFC Program

- **Accountability is...**
 - Clear transactions for the use of all vaccine, down to the patient immunization record level.
- **EHR Data linked to ALERT**
 - Good data quality → good inventory management
 - Good inventory management → high accountability
- **ALERT also tracks borrowed inventory**



Vaccine Inventory Management Means...

- **Adding both state-supplied & locally owned stock to ALERT inventory.**
- **≥ 95% of doses accounted for in ALERT IIS.**
 - Valid VFC eligibility code for each immunization given.
 - Dose on immunization record deducts from inventory with a matching vaccine lot number.
 - Reconcile doses that were not given to patients.
- **Accepting electronic order transfers** in ALERT when vaccine arrives in the clinic.
- **Borrowing** is a rare occurrence



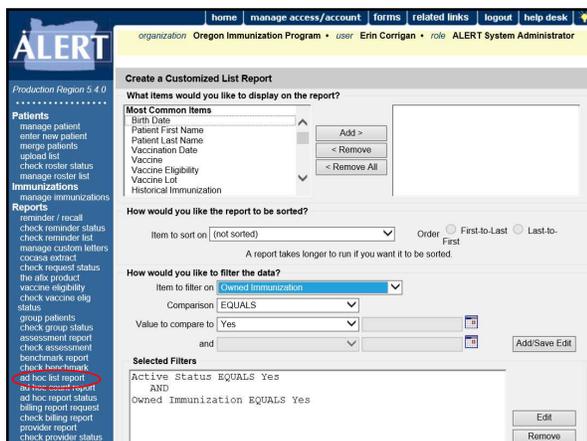
Borrowing on the Transactions Report...

Vaccine Transactions for Organization: Erin's Test Clinic - ORGB - 001002							Record Count: 6
Site Name	Trans Date	Lot \ Funding Source \ Trade Name	Type	Qty	Patient Name	DOB	
Erin's Test Clinic	08/28/2017	U189231 \ Private \ Fluzone Quad PF 0.5mL	REC	100			
Erin's Test Clinic	08/28/2017	U176209 \ State \ Fluzone Quad PF 0.5mL	REC	50			
Erin's Test Clinic	08/28/2017	U189231 \ Private \ Fluzone Quad PF 0.5mL	Borrowed	-1	BROWN, LIZ	01/27/1968	
Erin's Test Clinic	08/28/2017	U176209 \ State \ Fluzone Quad PF 0.5mL	Immunize	-1	BROWN, LYDIA	01/27/2007	
Erin's Test Clinic	08/28/2017	H015749 \ State \ Pneumovax 23	REC	40			
Erin's Test Clinic	08/28/2017	H015749 \ State \ Pneumovax 23	Immunize	-1	BROWN, LIZ	01/27/1968	



Finding borrowing another way... Ad Hoc List Report!





Finding borrowing another way... Ad Hoc List Report!

Create a Customized List Report

What items would you like to display on the report?

Most Common Items

- Immunization Items
- Borrowed Inventory
- From Inventory
- Immunization Submitted Date
- Inventory Funding Source
- NDC
- Owning Organization

Most Common Items

- Birth Date
- Patient First Name
- Patient Last Name
- Vaccination Date
- Vaccine
- Vaccine Eligibility
- Vaccine Lot
- Historical Immunization

Ad Hoc List Report & Borrowing

Birth Date	Patient First Name	Patient Last Name	Vaccination Date	Vaccine	Vaccine Eligibility	Vaccine Lot	Borrowed Inventory	From Inventory	Inventory Funding Source
4/9/2000	DOUGLAS	CAMPBELL	9/12/2019	HPV9	B	1602283	No	Yes	STATE
5/21/2008	DALE	EVANS	10/25/2019	HPV9	M	1602283	No	Yes	STATE
1/24/1978	JOSEPHINE	BAKER	10/2/2019	TDAP	B	6N5T6	No	Yes	STATE
1/24/1978	JOSEPHINE	BAKER	10/2/2019	Flu quadrivalent injectable pf/free	B	7AR35	Yes	Yes	PRIVATE
3/9/2007	JOHN	WICK	10/14/2019	Flu quadrivalent injectable pf/free	L	7AR35	No	Yes	PRIVATE
5/21/2008	DALE	EVANS	10/25/2019	MCV4D	M	AMVA152A (null)	No		

Ad Hoc List Report & Borrowing

- From Inventory:
Can be Yes, no, or blank
- Borrowed Inventory:
Can be Yes, no, or (null)
- If immunization did not deduct from inventory, ALERT will not be able to show as borrowed
 - No Inventory Transaction
 - Borrowing on Ad Hoc will be (null)

Ad Hoc List Report & Borrowing Detail

Vaccine	Eligibility	Lot	Historical	Borrowed	From Inventory
MMR	M	M040558	No	No	Yes
MMR	B	M040558	No	Yes	Yes
HepB-Peds	M	5DL22	No	(null)	No

- Only doses that deduct inventory will show "Borrowed" Yes/No
- If doses do not deduct inventory, "Borrowed" will show (null)



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Correcting Borrowing

- Most of the time, it is a coding problem.

WRONG	RIGHT
State-supplied vaccine coded L	VFC coded M, N, A or F, kids only! Other state-supplied O (uninsured) or B (insured)
Adult with Medicaid/OHP coded M	Insured adults must be coded B EXCEPT FLU: code as L

- *Correct the coding = fix the problem*
- No need to delete or resend immunization if all other information is correct



Correct in EHR and ALERT

- ALERT will not take code updates via data exchange – to fix in ALERT:

Vaccine Group	Date Admin	Series	Vaccine (Trade Name)	Dose/Owned?	Reaction	Hir	P>Edit
HepB	06/25/2015	1 of 3	HepB Adult (Recombivax Adult ®)	Full			
Influenza-seasonal	06/28/2017		Flu quadrivalent injectable phos (Fluzone Quad PP 0.5mL, 6)	Full			
PneumoPoly 23	06/28/2017	1 of 2	Pneumococcal 23 (Pneumovax 23 ®)	Full			

- Only track on paper Borrowing Log if truly borrowed



Paying Back Borrowing

- If the wrong vaccine was used, it is a truly borrowed dose
- Must be paid back and tracked on Borrowing Log
- Move vaccine in fridge and in ALERT Inventory



Reason

Reason for Modifying	Explanation/When to Use
Receipt of Inventory	Doses of vaccine that were received from the Oregon Immunization Program or distributor and added to your inventory. (Transfers will be automatically added to inventory when using Manage Transfers from within the IS.)
Error Correction	Inventory quantity was entered incorrectly; the correction could be adding or subtracting from quantity on hand. (To change an error in the lot #, dose, or other non-quantity data, click on the vaccine name hyperlink from the Show Inventory screen and edit details as needed.)
Doses Returned	Doses of vaccine that were returned to you; this should not be used routinely because any doses you transfer should be done using the Manage Transfers feature and rejected or returned doses will be automatically added back to your inventory.
Doses Transferred	Doses of vaccine that were transferred to another site; this is used when the doses WERE NOT transferred using the Manage Transfers feature in the IS. (Transfers are automatically deducted from inventory when using Manage Transfers in ALERT.)
Doses Recalled	Doses of vaccine recalled by the manufacturer.
Doses Administered	Doses of vaccine that were administered but were not automatically deducted from your inventory by the IS (for example, because you reported them by electronic data exchange or did not have the "From ALERT IS Inventory" box checked in the Enter New Immunizations screen).
Borrowed In	Doses of vaccine added to inventory to pay back vaccine that was given to a patient with a mismatch between vaccine eligibility code and vaccine lot funding source.
Borrowed Out	Doses of vaccine subtracted from inventory when you have given an immunization from a lot whose funding source does not match the patient's vaccine eligibility code; only use this as a manual adjustment when you did not take the immunization from inventory at the time of vaccination.
Spoilage reported by Provider	Doses of vaccine that were spoiled due to causes other than fridge malfunction or failure to store properly upon receipt; an example would be a vial of vaccine left out of the fridge overnight.
Lost or damaged in transit to Provider	Doses of vaccine that never arrived or that were unusable when they did arrive (temp excursion, broken vials, etc).
Failure to store properly upon receipt by Provider	Doses of vaccine that were accepted by the provider but not stored properly and so were spoiled.
Refrigeration failure reported by Provider	Doses of vaccine that were spoiled due to temperature excursion.
Lost or unaccounted for in Provider Inventory	Doses of vaccine that can't be accounted for after being received and entered into inventory (you can't find the vaccine).
Other - Not Usable, reported by Provider	Use to reconcile inventory when vaccine was wasted or damaged (e.g., broken vial in box or patient refused vaccine after drawing it up) and nothing else is appropriate.

Questions on Borrowing?

OK... switching gears...

Vaccine Accountability

- Goal: 95% or better
- Less than 5% wasted, spoiled and expired
- Doesn't include flu
- Required by state law



The Vaccine Accountability Report

Oregon Immunization Program Vaccine Accountability Report - Lionadh-Nylen Pediatrics Oregon Vaccines for Children

Org Code: KL1234 VFC PIN: P1234

Report timeframe: Month 7, 2016 - Month 8, 2016 Report date: 09/16/2016 Funding Source: Both

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

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 %
Rotavirus	ALL	1	28	-3	0	0	0	0	27	28	100.00%
Tot/Tdap	2726X	0	10	0	0	0	0	0	8	8	80.00%
Tot/Tdap	AMH21005	0	17	0	0	0	-5	0	10	15	88.24%
Tot/Tdap	C4690BA	0	5	0	0	0	0	0	5	5	100.00%
Tot/Tdap	C3902AA	0	19	-1	0	0	0	0	12	13	68.42%
Tot/Tdap	M00037	0	20	0	0	0	0	0	10	10	50.00%
Tot/Tdap	ALL	0	71	-1	0	0	-5	0	45	51	71.83%
Varicella	K021933	3	0	0	0	0	0	0	0	0	0.00%
Varicella	L0242S2	4	0	-1	0	0	0	-3	0	4	100.00%
Varicella	L032386	0	20	-2	0	0	-2	0	14	18	90.00%
Varicella	M006157	0	20	0	0	0	0	0	20	20	100.00%
Varicella	ALL	7	40	-3	0	0	-2	-3	34	43	89.38%
ALL	ALL	101	489	-32	-2	-3	-22	-18	419	513	87.54%

What Lowers Accountability...

- **Doses not deducting from Inventory**
 - Use Ad Hoc List report to troubleshoot common problems:
 - Typos in lot number from EHR
 - Use the lot number on the outer packaging
 - Not all vaccines have the same lot number on all the components
 - Ex: Pentacel and Menveo
 - Entering a lot number with the letter "O" instead of the number "0"
 - If entering directly in ALERT, don't forget to check the "From ALERT IIS Inventory" checkbox:

Enter New Immunization
 From ALERT IIS Inventory



What Lowers Accountability...

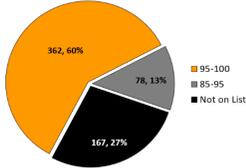
REMEMBER:
The goal is to have a transparent audit trail. Manually modifying inventory does not allow that.

- **Manually adjusting inventory**
 - Frequent use of "Doses Administered" lowers accountability
 - Immunizations did not deduct from inventory
- **Eligibility code issues**
 - No eligibility code sent to ALERT
 - Coding adults as "M"
 - ALERT IIS will reject the eligibility code for adults coded as "M"
 - Should be coded as "B" for Billable or "L" for Locally-Owned



VFC Quarterly Achieving Excellence List...

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.



Category	Count	Percentage
Gold (95-100%)	362	60%
Silver (85-95%)	78	13%
Not on List	167	27%

In Quarter 2 of 2019:
 362 clinics (60%) met the gold criteria for excellent vaccine inventory accounting.
 78 clinics (13%) met the silver criteria for very good vaccine inventory accounting.
 60% of VFC-participating clinics are either meeting or exceeding the vaccine inventory accounting requirements of the program, and another 13% of you are nearly there!

ALERT IIS training resources

Live webinars/on-demand content
 Learn more about ALERT IIS reports used to track inventory and accountability: **NEW!** Ad Hoc Report e-learning module!





HOURS of OPERATION:
Mon-Fri , 9-4

ALERT
PROVIDER INFORMATION SYSTEM

ALERT IIS Help Desk
800-980-9431
alertiis@state.or.us

- Reset passwords
- Set up new user account
- Report duplicate patient records

oregon
vaccines for children

VFC Help Desk
971-673-4VFC
VFC.help@state.or.us

- Vaccine ordering
- Temperature excursions
- VFC compliance
- VFC recertification

Health
Authority
