

Recommendations Highlights: Dose Level Accountability

- Dose-lot number accountability principle: Every vaccine dose should be accounted for with the associated lot number information (P702).

According to the state/event model, the following vaccine dose states should be measured:

available (on-hand), in-transit (transferring),
administered, wasted (nonviable, not returnable),
expired/spoiled (nonviable, returnable), unaccounted for,
over-estimated, returned shipment, transferred out,
repaid (previously borrowed), and borrowed out.

- IIS inventory management functionality should support accountability at the dose/lot number level.

Understanding MI Dose Level

- Patient eligibility doesn't equal dose level eligibility
- MI wanted to capture who was receiving our doses and why (eligibility)
- When we decided to go to dose level: CDC was encouraging dose level and we could create our accountability program at the dose level and report to CDC



Add/Edit Products - Site: MDCH VFC Program

Add/Edit Products

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Person	Rem/Rcl	Sch/CC	Imp/Exp	VFC	My Site	Admin	Reports	Other
Prod Mtn	Order Search	Proc Orders	Bulk Results	VOFA	Hsd Roster			

Product Details

NDC* 58160 - 811 - 45 **Vaccine*** DTaP-Hep B-IPV (Pe : **Mfr*** Glaxo :

Product Name* PEDIARIX **Qty/Pkg*** 5 **Vol/Dose*** 0.5

Minimum Dose Qty 5 **Pkg Type*** SYR :

Additional Notes Package of 5 SYRINGE

Description Package of 5 SYRINGE

Certifications

☒ **VFC Pediatric** ☐ **MMRV/Varicella Cert.** ☐ **Universal Hep B Cert.** ☐ **High Risk/Hep B Cert.** ☐ **MMVP**

Availability

☒ **Visible to Providers** ☒ **VFC Inventory** ☐ **SNS Inventory** ☒ **E-Order Enable**

CDC

Vaccine DTAPHEP **Maker** SKB

Product Intent: ☒ **Pediatric** ☐ **Adult**

Pediatric Details

Contract 200-2010-1394 ☒ **Enabled**

CDC Dose Cost 49.75 **Excise Tax** 3.75 ☐ **Shortage**



Add Administered Doses

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Person	Rem/Rec	VIM	My Site	Admin	Reports	Other
Manage Inv Inw Hist Vacs Admin						

Date*	Vaccine*	DOB*	VFC Eligibility*	Reason*	Target Group*
02/12/2010	DTaP	02/25/1993		Opted-Out	
				Opted-Out	
			Medicaid-VFC	Opted-Out	
			Uninsured	Opted-Out	
			Under Insured	Opted-Out	
			Native American	Opted-Out	
			Medicaid-Non-VFC	Opted-Out	
			Private Pay/Insurance	Opted-Out	
			MI-CHILD	Opted-Out	
			MI VRP	Opted-Out	
			Medicare A	Opted-Out	
			Medicare B	Opted-Out	
			Medicare D	Opted-Out	
			Other Provider Data	Opted-Out	
			Other Public Purchase	Opted-Out	
			317 Special	Opted-Out	
			Unknown	Opted-Out	

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Benefits to Dose Level IIS Data for MI

- Data pulled from MCIR from prior year showed a dramatic reduction in the number of underinsured children served using 317 and therefore we did not need to cut our program. CAT was completed using MCIR dose level data.
- Able to track vaccine doses with dollars spent for 317 and state funding
- Enhanced monitoring of provider accountability with possible fraud and abuse
 - Ability to run Business Objects reports to determine each public vaccine administered and eligibility recorded at time of service
 - Provides dose level data if needed for reimbursement

Recommendations Highlights: Borrowing

- Borrowing between private and public vaccine stocks at a Provider Organization should be done according with the VFC program guidelines and Grantee Vaccine Program policies.
- IIS should have functionality in place to assist
 - The Grantee Vaccine Program with monitoring of Vaccine borrowing between the public and private stocks, and
 - Provider Organizations to meet reporting and accountability requirements for Vaccine borrowing and replacement.

Such functionality also would be helpful for monitoring and analyzing Provider Organization's borrowing practices.

- Borrowing and replacement of borrowed vaccine doses between public and private stocks should be tracked at the dose level(BR707). When a multi-dose vial is involved, borrowing should be done at the single-dose level (BR725).

How MI Tracks Borrowing in IIS

Michigan Vaccines For Children (MI-VFC) providers maintain two inventories:

1. Private pay patients, MI-CHILD, private insurance and the other private purchases
2. VFC-eligible (Uninsured, Underinsured, Medicaid, and Native American/Alaskan native) patients under 19 years of age.

In the rare event it becomes necessary to borrow doses from the VFC inventory to immunize a private pay child, (only reasons accepted are: private stock has been ordered but delayed and they normally stock the vaccine) and doses are borrowed from VFC/Public inventory, it is necessary to replace them with equivalent doses.

MI Vaccines For Children (VFC) Program requires product to product replacement. For example:

- Replace HPV4 with HPV4

Lot Transactions - Private

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Person	Rem/Rcl	Sch/CC	VIM	Imp/Exp	VFC	My Site	Admin	Reports	Other
Manage Inv	Inv Hist	Vacs Admin							

[Manage Inventory](#)

Lot Information

Vaccine	DTaP (pediatric)	Expires	03/03/2013	Volume/Dose:	0.5
Mfr (Product)	Glaxo (INFANRIX)	Lot #	1234123	On Hand:	9
NDC	58160-840-46	Presentation	SYR (5)	Lot Status	Active
				Default	No
Date Created	03/12/2012	Created By	dennya0628		

[Make Lot Default](#)

[Inactivate Lot](#)

Date	Transaction Log	Qty	LWB	Comments
Add New Transaction				
03/12/2012	Current Balance	9	1	
03/10/2012	VFC Administered Dose: VFC Medicaid Dose	-1	1	Patient Test (01/01/2009)
03/02/2012	Balance Forward	10	0	

Add Vaccine Lot Transaction - VFC/Public

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Person	Rem/Rcl	Sch/CC	VIM	Imp/Exp	VFC	My Site	Admin	Reports	Other
Manage Inv	Inv Hist	Vacs Admin							

[Lot Details](#)

Lot Information

Vaccine	DTaP (pediatric)	Expires	04/04/2014	Volume/Dose:	0.5
Mfr (Product)	Glaxo (INFANRIX)	Lot #	9876987	On Hand:	15
NDC	58160-810-11	Presentation	VIAL (10)		

Transaction Detail

Date*	<input type="text" value="03/12/2012"/>	Doses*	<input type="text" value="1"/>
Action*	<input type="text" value="Transferred Out"/>	Reason*	<input type="text" value="Replaced Borrowed"/>
Inventory Effect:	<input checked="" type="radio"/> Subtract <input type="radio"/> Add <input type="radio"/> N/A	LWB Effect:	<input type="radio"/> Subtract <input type="radio"/> Add <input checked="" type="radio"/> N/A
Comment*	<input type="text" value="Replacing dose borrowed from Private Inventory for Patient Test (01/01/2009)"/>		
Created By:	Date: 03/12/2012		

Add Vaccine Lot - Private

[Print Help](#)[Home](#) [Exit](#)**Person****Rem/Rcl****Sch/CC****VIM****Imp/Exp****VFC****My Site****Admin****Reports****Other**[Manage Inv](#)[Inv Hist](#)[Vacs Admin](#)

Lot Information

Vaccine* Expires*

Volume/Dose: 0.5

Mfr (Product)* Lot #*

On Hand: 0

NDC*

Presentation VIAL (10)

Transaction Detail

Date* Doses* Action* Reason* Inventory Effect: ☐ Subtract ☒ Add ☐ N/ALWB Effect: ☒ Subtract ☐ Add ☐ N/AComment* Created By: Date: 03/12/2012

Recommendations Highlights: IIS Reports

- IIS application should have reports available to support detailed analysis by the grantee program of a provider organization practices (GR719). For example (Chapter 6):
 - No inventory vaccine report (1.1).
 - Pending inventory/transfers (1.2).
 - Vaccine loss (1.5) - specifically for review of waste.
 - Borrowed/replaced report (2.1).
- The Guide (chapter 6) contains recommendations for reports in the following areas:
 - Accountability reports to support inventory management (for purposes other than ordering and reconciliation, reports 1.1 – 1.6).
 - Reconciliation reports (reports 2.1 – 2.4).
 - Accountability reports that support the ordering process (3.1 – 3.6).
 - Allocation reports (i.e., to allocate vaccines during shortages and to issue a recall based on lot numbers, reports 4.1 – 4.4).

Manage Inventory

Lot Information

Vaccine	DTaP (pediatric)	Expires	03/03/2013	Volume/Dose:	0.5
Mfr (Product)	Glaxo (INFANRIX)	Lot #	AC14B126AA	On Hand:	5
NDC	58160-810-52	Presentation	SYR (10)	Lot Status	Active
				Default	No
Date Created	03/10/2011	Created By			

Make Lot Default

Inactivate Lot

Date	Transaction Log	Qty	LWB	Comments
<u>Add New Transaction</u>				
11/07/2011	Current Balance	5	0	
<u>11/01/2011</u>	VFC Administered Dose: VFC Medicaid Dose	-1	0	Little Michigander (01/01/2008)
<u>11/01/2011</u>	VFC Administered Dose: VFC Medicaid Dose	-1	0	Ima Michigander (01/31/2001)
<u>11/01/2011</u>	VFC Administered Dose: VFC Medicaid Dose	1	0	Ima Michigander (01/31/2001) Delete transaction recorded due to dose administered on 11/01/2011 was altered by on 11/07/2011. Inventory open. Adjustment made.
<u>11/01/2011</u>	VFC Administered Dose: VFC Medicaid Dose	-1	0	Ima Michigander (01/31/2001)
10/31/2011	Balance Forward	7	0	



Inventory Details					Last Balanced: 11/30/2009	
Name	Private					
<input type="checkbox"/> Default	<input checked="" type="checkbox"/> Active	Active Date	<div>04/25/2008</div>			
Vaccine	Manufacturer	Lot #	Expires	On Hand	Active	Default
Add New Lot					Lot Detail View	
DTaP	Glaxo (INFANRIX)	AC14B087AA	02/11/2011	1 doses	✓	
DTaP	Glaxo (INFANRIX)	AC14B102CA	12/08/2011	5 doses	✓	
Hep A (adult)	Glaxo (HAVRIX)	AHAVB309DA	06/24/2011	6 doses	✓	
Hep A (ped)	Glaxo (HAVRIX)	AHAVB336AA	10/13/2011	4 doses	✓	
Hep A-Hep B	Glaxo (TWINRIX)	AHABB096AA	12/05/2009	0 doses	✓	
Hep A-Hep B	Glaxo (TWINRIX)	AHABB167BA	06/04/2011	3 doses	✓	
Hep B (adult)	Merck (RECOMBIVAX)	0727X	04/10/2010	0 doses	✓	
Hep B (adult)	Glaxo (ENERIX)	AHBVB765AA	03/03/2012	8 doses	✓	
Hep B (ped/adol)	Glaxo (ENERIX)	AHBVB737AA	01/06/2012	5 doses	✓	
Hib (Hiberix/ActHIB)	sanofi (ACTHIB)	UF605AB	07/31/2010	3 doses	✓	

Conclusions

- Workgroup developed guidelines and recommendations to use IIS as a base for handling inventory management activities
- Recommendations are at the business/operational level, independent from specific implementations and technology solutions
- Consistent use and implementation of these recommendations will help to improve IIS practices. Developed guidelines will assist IIS in aligning practices through adherence to a set of common recommendations and guidelines.
- Guidelines address NVAC recommendations to develop a guidebook and best practices for IISs to promote IIS data quality