Monitoring your Immunization Submissions

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Session Goals

- 1. Tools for monitoring your immunizations
- 2. Understand errors and warnings and how to fix them.







Tools

 Immunization Registry Response Viewer
EHR Immunization Administration Details Report
CDC code sets



Immunization Registry Response Viewer

	/iewer R
Patient Portal Administration	s (3
FIND FIND Professional Contacts Visit Status Room Tasks	ħu
Scheduled C-CDA Batch Export Tool Delete Charted Visit	
Scheduled User Administration	Dav

From the Tools menu in the EHR.

Not available for all states





Immunization Registry Response Viewer

			Search Filter:			Search
Date/Time Received	Patient Name	PCC #	Response Status	Errors Wa	rnings	Reviewed
03/22/18 5:34pm	Ashley Ott	30043	Submission Rejected	1	0	
03/20/18 4:35pm	Sophia Tsougranis	23109	Submission Contained Errors/Warnings	0	1	\checkmark
03/15/18 3:35pm	Matt Masterson	29982	Submission Rejected	1	0	
03/14/18 5:35pm	Dave Davidson	76543	Submission Contained Errors/Warnings	0	1	
03/14/18 3:36pm	Quinn J. Farkas	64319	Submission Rejected	1	0	
03/13/18 2:35pm	Pebbles Flintstone	11235	Submission Contained Errors/Warnings	0	1	
03/13/18 2:35pm	Aimee Flanagan	81321	Submission Rejected	1	0	
03/13/18 1:35pm	Emma M. Capone	34558	Submission Contained Errors/Warnings	0	1	\checkmark
03/13/18 11:35am	Elizabeth Patterson	91442	Submission Rejected	2	2	\checkmark
03/13/18 8:35am	Johnny Canning	33377	Submission Rejected	2	2	
03/12/18 10:35am	Brian Case	61098	Submission Rejected	1	0	\checkmark
Response Severity:	Errors, Warnings	▼ Dates: ●	All O From 04/19/18 to 04/20/18	Reviewed	d: All S	tatuses
Care Center:	All Care Centers	Use the filt	ters to view a specific response severi	ty level,		
Page Up Page D	own Page 1 / 1		e, care center, or review status		lose	Open





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Immunization Registry Response Viewer Response - 03/13/18 8:35am (Submission Rejected)

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Patient Demographics

	Submitted Date	a Response	Severity Respon	nse Message	F
Protection Indicator		Error	PATIEN	NT CONSENT IS MISSING. REQUIRED FOR PATIENTS BORN BEFORE 0	1/01/1998.
4					Þ
New Immunization: ()3/13/18 - Pneu	mococcal Va	c (CVX 33) - Lot	#	
	Sul	omitted Data	Response Seve	rity Response Message	Response N
Substance Lot Numb	ber		Error	NEW IMMUNIZATION DOSE LOT NUMBER IS MISSING.	
Substance Expiration	n Date		Warning	NEW IMMUNIZATION DOSE LOT EXPIRATION DATE IS MISSING.	
Substance Manufact	turer Name		Warning	NEW IMMUNIZATION DOSE LOT MVX CODE IS MISSING.	
•			***** *****		•
Immunization data s	ubmitted to Nev	Jersey Imm	and a star in the former		
The viewer shows "Full Report" to vie		d warnings l	oy default. Sele	Click "Open Chart" to open the patient's chart and make corrections	
	ew the entire re	d warnings l esponse for r	oy default. Sele more context	Click "Open Chart" to open the patient's	/yy 12:00ar





Real world responses from the registry

Immunization Registry Response Viewer Response - 06/13/23 6:30am (Submission Contained Errors/Warnings)

Historical Immunization: 06/12/23 - MEN-Trumenba (B) (CVX 162) - Lot

Substance/Treatment Refusal Reason Warning Required observation missing RXA-18 (SubstanceTreatmentRefusalReason): Has a conditionally required element [SubstanceTreatmentRefusalReason].		Submitted Data	Response Severity	Response Message	Response Notes
	Substance/Treatment Refusal Reason		Warning	Required observation missing	Has a conditionally required element

General

	Submitted Data	Response Severity	Response Message	Response Notes
Additional Information		Error	Required observation missing	The Segment will not load due to missing or invalid required data. Expectation: value for fields segment when defining a refusal must have a valid refusal reason in RXA-18 (SubstanceTreatmentRefusalReason) and have RXA-20 (CompletionStatus) set to "RE". Also, the reserved CVX codes
Additional Information		Error		Not processing order group, the following error occurred: 1 or more segments in the ordered group contains errors preventing





Real world responses from the registry

- **NK1**: Responsible person required in the NCIR. No NK1 segment provided.
- **RXA**-17 (SubstanceManufacturerName): Has a conditionally required element [SubstanceManufacturerName]. Expectation: value is not empty (or set to UNK) when the first occurrence of RXA-9.1 is valued "00" and RXA-20 (CompletionStatus) is valued "CP" or "PA".
- If RXA-20 is valued "CP" or "PA" and the first occurrence of RXA-9.1 (Administration Note code) is valued "00" then the message SHALL include an OBX segment associated with the RXA with **OBX**-3.1 shall equal "64994-7" indicating Funding Eligibility.

Etcetera Etcetera Etcetera.....





What the H*^~! are all these 3 letter words?

HL7 (Health Level 7) is a messaging format used to communicate clinical data electronically. Sometimes registries will return responses that refer to various segments of the message they receive.





Basic HL7 reference

PID and NK1: Demographics

RXA and RXR: The immunization

OBX: Additional details







EHR to Registry message map

What elements in the EHR relate to what is sent to the registry





Demographics

PID - Patient Identification:

- Patient's Name, DOB, Sex, Race, Ethnicity
- Patient's custodial account's Address, Phone, Email

PD1 - Patient Additional Demographics:

• Share with registry, Preferred Contact Method for the Immunization Registry, Patient's Immunization Registry Status

NK1 - Next of Kin / Associated Parties:

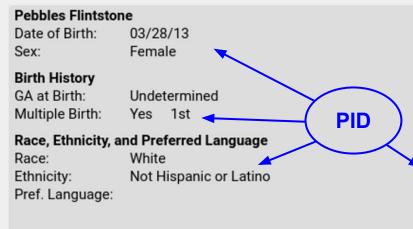
• Comes from Personal Contacts listed on the patient





Demographics

Patient Demographics



Pebbles Flintstone 10 yrs, 3 mos 03/28/13 F

Patient Information Patient Flags: Adoption, Burlington Mark Williams, M.D. PCP: Other ID: 828-74-6104 School: Bedrock Central Note: Rubble Old PM ID #: 2755 Relation to Bill Payer: Child Mother's Maiden Name First Name: Wilma

Middle Name: Last Name: Slaghoople

Communication Preferences

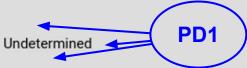
Patient's Confidential Communication Preference

No Preference

U**C** 2023

Immunization Registry Communication Preferences

Share with Registry: Yes Preferred Contact Method for the Immunization Registry: Un Patient's Immunization Registry Status: Unknown





Demographics

Account Demographics



Pebbles Flintstone 10 yrs, 3 mos 03/28/13 F

Home Account Information

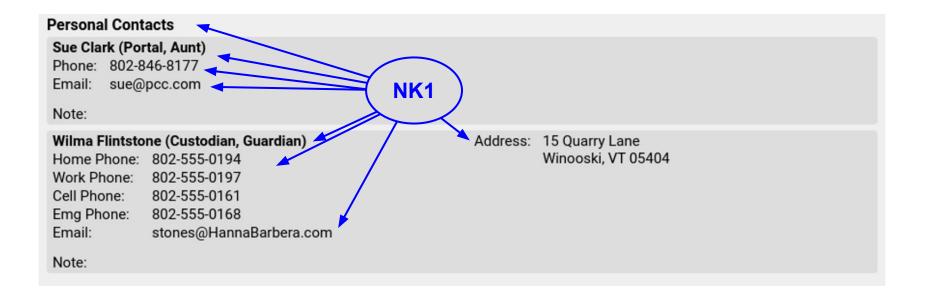
Account Flags: CONFIDENTIAL EMG Contact: Fred EMG Phone #: 802 991-6812 Alt Last Name: Rubble Mother Employer: 439-213-8174 Father Employer: Pharmacy #:

Recent Financial History

Last Service: Last Bill Sent: Last Pers. Pmt: Last Ins. Pmt: Hold Bill Until: Budget Amt:











Immunization

ORC - Order:

Provider of visit and provider placing the order

RXA - Administration:

What, when and who administered the vaccine or why it wasn't

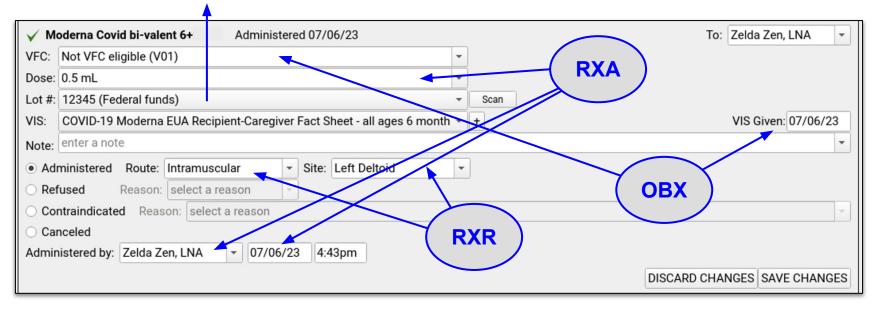
RXR - Route: Where it was administered on the patient

OBX - Additional details: VIS, Funding, VFC, Contraindication Reasons





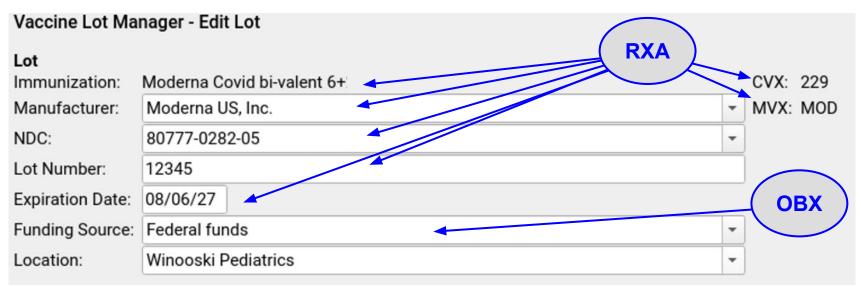
Immunization Order Lot number links Manufacturer, NDC, Funding Source and Expiration Date in the vaccine lot manager







Lot Number Links the Immunization: Manufacturer, NDC, Expiration Date and Funding Source







But how can you prevent errors?

Immunization Administration Details Report

Vaccine Lot Manager

NDC codes

CDC CVX code/Tradename maps





Immunization Administration Details Report

Immunization Administration Details

View vaccine administration details for a given date range, including funding source, VFC eligibility, insurance policies and administering user.

Immunization Immunization: Appointment L Administering	All ocation: All	Date: From 07/0)7/2023 to 07/0	7/2023						
Columns: 12 D	Displayed		Ŧ	Group By: None	•			Search Filter:		
Patient Name	Patient PCC#	Patient DOB	Patient Sex	Immunization (CVX)	Lot Number 🔺	Admin Date	Site 🔶	Route 🍦	VFC Eligibility Status	Funding Source
Canning, John	3314	11/10/2006	М	Menactra MCV4P 114 (114)		07/07/2023 4:21pm	Left Deltoid	Intramuscular	VFC eligible - Uninsured	
Lingle, Nathaniel	2739	06/20/2019	м	DTaP Daptacel (106)	234vb	07/07/2023 3:57pm		Intramuscular	Not VFC eligible	State funds
Flanagan, Aimee	1079	05/18/2022	F	HepB Adol/Ped (08)	268646487665	07/07/2023 4:18pm	Right Vastus Lateralis	Intramuscular	Not VFC eligible	Private funds

By clicking on the column headers





Vaccine Lot Manager

Immunization (CVX)	Manufacturer (MVX) *	Lot Number	Expiration	Funding Source	Diluent Lot #	Diluent Exp.	Location	Status	Quantit
DTaP Daptacel (106)		234vb	03/03/24	State funds			Winooski Pediatrics	Available	-1
HIB (49)		UB56789		State funds	Dxy589			Available	24
HIB (49)		UB56792	09/10/23	State funds	Dxy589		Winooski Pediatrics	Available	19
HepB Adol/Ped (08)		268646487665		Private funds			Winooski Pediatrics	Available	10
HPV (62)	Abbott Laboratories (AB)	lot number	04/16/24	Federal funds			Winooski Pediatrics	Available	38
Tdap (115)	Abbott Laboratories (AB)	12345678	04/18/23	Private funds			Winooski Pediatrics	Available	18
HepA Ped/Adol (83)	GlaxoSmithKline (SKB)	3458dge		Private funds			Winooski Pediatrics	Available	7
HepA Ped/Adol (83)	GlaxoSmithKline (SKB)	5953X	04/18/24	State funds			Winooski Pediatrics	Available	90
Flu Quad PF 6mo+ (150)	ID Biomedical (IDB)	3923hh3	09/01/23	Private funds			Winooski Pediatrics	Available	8
Varicella 21 (21)	Lederle (LED)	0687y		Tribal funds			Winooski Pediatrics	Available	29
HepB Adol/Ped (08)	Merck and Co., Inc. (MSD)	311342	10/10/23	State funds			Winooski Pediatrics	Available	0
MMR (03)	Merck and Co., Inc. (MSD)	UY567TX	06/12/26	State funds			Winooski Pediatrics	Available	9
MMRV (94)	Merck and Co., Inc. (MSD)	8d87ew	12/01/23	Private funds			Winooski Pediatrics	Available	8
Covid-19 Moderna 6m-5v (230)	Moderna US. Inc. (MOD)	A56778	01/01/24	Federal funds			Winooski Pediatrics	Available	100
Immunization: All Immunizatio	ne 🔹	Lo	cation: Winor	oski Pediatrics	•	Displ	ay: Available, Reserve	d	





NDC codes

Can be helpful for ensuring correct manufacturer

Vaccine Lot Manager - Add Lot

1 at

Immunization:	MMR	-	CVX: 0
Manufacturer:	select a manufacturer	*]
NDC:	select NDC	1	
Lot Number:	enter a lot number	4	
Expiration Date:	mm/dd/yy		
Funding Source:	select a funding source	-	
Location:	Winooski Pediatrics	-	

Diluent





CDC Code Sets

Mapping for Product Name, CVX, CPT, MVX, NDC, etc...

VIS URL Table CPT Mapped to CVX		<u>CDC Product</u> <u>Name</u>	Short Description	<u>CVX</u> Code ▲	Manufacturer	<u>MVX</u> <u>Code</u>	<u>MVX</u> <u>status</u>	<u>name</u> <u>status</u>	<u>Updated</u> <u>Date</u>
2015 Edition Versioned Codes		ORIMUNE	OPV	02			Inactive	Inactive	9/1/2010
IIS Technical Guidance	+	M-M-R II	MMR	03	Merck and Co., Inc.	MSD	Active	Active	5/28/2010
Clinical Decision Support for Immunization (CDSi)	+	Priorix	MMR	03	GlaxoSmithKline	SKB	Active	Active	6/15/2022
Meaningful Use		ATTENUVAX	measles	05	Merck and Co., Inc.	MSD	Active	Inactive	4/28/2015
2D Vaccine Barcodes	+				inc.				
CDC IIS Activities	+	MERUVAX II	rubella	06	Merck and Co., Inc.	MSD	Active	Inactive	4/28/2015
IIS Strategic Plan	+	MUMPSVAX	mumps	07			Inactive	Inactive	9/1/2010
Contacts for IIS Immunization Records		ENGERIX B- PEDS	Hep B, adolescent or pediatric	08	GlaxoSmithKline	SKB	Active	Active	8/9/2013
IIS Policy and Legislation		RECOMBIVAX-	Hep B, adolescent or	08	Merck and Co.,	MSD	Active	Active	8/9/2013





Common Errors

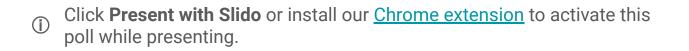
- Invalid character in name
- Refusal reason missing
- Missing VFC eligibility status







What types of errors and warnings have you seen?





Session Takeaways

- 1. Reports for finding incomplete immunization orders
- 2. Elements in the EHR in relation to what is sent to the registry
- 3. CVX/MVX/NDC relationship
- 4. What isn't sent when a lot isn't selected





References

IIS Data Code Sets | CDC:

https://www.cdc.gov/vaccines/programs/iis/code-sets.html

Tradename to CVX and MVX codes:

https://www2.cdc.gov/vaccines/iis/iisstandards/vaccines.asp?rpt=tradename

Immunization Registry Response Viewer: <u>https://learn.pcc.com/help/immunization-registry-response-viewer/</u>

Vaccine Lot Manager: <u>https://learn.pcc.com/help/immunization-lots-vaccine-inventory-management/</u>





What Questions Do You Have?





Later Viewing

This and all other UC2023 course recordings will be available for later viewing through the app.



