

From Giving the Shot to Reconciling Lots: Vaccine Administration 201

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UC
2024

Session Goals

1. Accurate vaccine recording
2. Accurate vaccine reporting
3. Best practice workflows

Giving the shot.....

- Review the Patient's Immunization Record
- Review Forecasting Recommendations
- Check VFC Status
- Order and Administer Vaccine



Review the Patient's Immunization Record

Immunizations			
Vaccines			
DTaP			
Hepatitis A			
Hepatitis B	10/22/06	10/10/17	12/12/17
HPV	10/10/16	10/01/17	
Influenza	07/20/19	REFUSED 01/14/20	
MMR	10/25/07	09/25/09	
Varicella	10/25/07	09/25/09	
~Meningococcal Unspec	10/05/18		
HIB	CI 01/19/19		
Meningococcal, Unknown	10/01/17	10/10/17	
Hep A, live attenuated	05/26/08		
Cholera, WC-rBS	01/14/20		
Ordered	IPV		
Diseases			
Measles	10/17/16		

Print

Red text with a "REFUSED" or "CI" label indicates a contraindicated or refused immunization

The Ordered line shows pending immunizations that have been ordered but not yet administered

The diseases line indicates a diagnosis or problem list entry of a vaccine preventable disease

Review Forecasting Recommendations

Forecasting Results

Last updated: 01/28/20 12:30pm

Show Informational Warnings(0)

Refresh

Vaccine Family	Dose #	Recommended Date	Minimum Date	Past Due Date	Maximum Date
Polio	1st	11/10/2006 (2m)	10/22/2006	12/10/2006	09/10/2126
DTaP/DT/Td/Tdap	2nd	09/10/2017 (11y)	09/10/2017	09/10/2017	09/10/2126
Flu	2nd	07/01/2020 (13y 9m)	07/01/2020	07/28/2020	09/10/2126
Meningococcal	2nd	09/10/2022 (16y)	09/10/2022	10/07/2023	09/10/2062

Immunization forecasting results and warnings provided by IMMUCAST™

- *Review next expected dose (1st, 2nd,3rd, etc.)*
- *See recommended date and patient's age on that date*
- *See minimum date, maximum date and past due date*

Verify and Select VFC Status

▼ Vaccines For Children

Insurance and Race as of 01/28/20

Primary: Health America HMO \$10/20 (Copay \$10)

Eligibility Status:

Not VFC eligible (V01)

VFC eligible - Medicaid/Medicaid Managed Care (V02)

VFC eligible - Uninsured (V03)

VFC eligible - American Indian/Alaskan Native (V04)

VFC eligible - Federally Qualified Health Center Patient (under-insured) (V05)

Local-specific eligibility (V07)

CHIP (V22)

317 (V23)

Medicare (V24)

State Program Eligibility (V25)

Order and Administer the Vaccine

If empty, select the patient's eligibility status.

Assign the task to another user.

Click the dropdown to select a lot or open the lot manager. Click "scan" to scan the vial.

Immunization Orders

Select Vaccine Lots

EDITING

Refuse

IPV

To: Gary Ross

VFC: select an eligibility status

Dose: 0.5 mL

Lot #:

Scan

VIS: Polio Vaccine VIS (Edition 07/20/16)

+ VIS Given: mm/dd/yy

Note: enter a note

Administered

Route: select a route

Site: select a site

Refused

Reason: select a reason

Contraindicated

Reason: select a reason

Canceled

Administered by: Unknown

mm/dd/yy

hh:mm

DISCARD CHANGES

SAVE CHANGES

Mark the order as complete by selecting a status., and fill out the appropriate dropdown menu items.

Select VIS

IPV To: Nurse

VFC: select an eligibility status

Dose: 0.5 mL

Lot #:

VIS: Polio Vaccine VIS (Edition 07/20/16) +

Note: Multi Pediatric Vaccines VIS (Edition 11/05/15)

- Adr Polio Vaccine VIS (Edition 10/30/19)
- Ref Multiple Vaccines VIS (Edition 11/16/12)
- Ref Multiple Vaccines VIS (Edition 10/22/14)
- Cor Polio Vaccine VIS (Edition 07/20/16)
- Carc Polio VIS (Edition 11/08/11)

Administered by: Unknown mm/dd/yy hh:mm

Scan

VIS Given: 01/31/20

DISCARD CHANGES SAVE CHANGES









Select a Vaccine Information Statement

Click to add a second VIS line

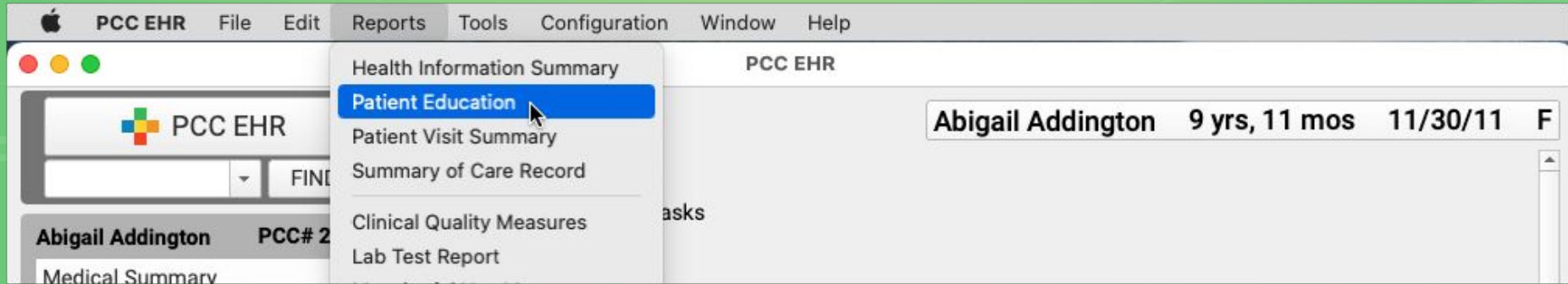
Patient Education/VIS

- Select the most recent VIS in dropdown
- Locate the VIS in Patient education
- Print, save or send VIS to portal

COVID-19 Vaccine Fact Sheet

 <p>How does the COVID-19 Vaccine work?</p> <p>These vaccines inject a piece of messenger RNA, a strand of protein that gives instructions to your cells, to create the spike protein of the coronavirus. Once made, your cells then display this protein and your body recognizes that does not belong so your body makes antibodies against it. mRNA antibodies make it any virus enters the body your immune system can immediately attack it, preventing you from getting sick with COVID-19.</p>	 <p>How is the vaccine administered?</p> <p>Persons age 18 years and older should receive 2 doses at least 14 days apart (Moderna). Second doses administered up to 28 days before the recommended dose (2-8 months after the first dose) are considered valid. Second doses or boosters administered before the recommended interval are possible. There is no minimum interval between the first and second dose.</p>	 <p>Is the vaccine safe?</p> <p>Both of the major vaccines (Moderna and Pfizer) have been subjected to rigorous safety go, three phase clinical trials which included at least 20,000 test candidates. Each of these vaccines have demonstrated high efficacy (Moderna is 94.1% Pfizer 95%) at preventing laboratory-confirmed COVID-19 illness in people who reported disease and who had no evidence of prior infection. A credible, the Food and Drug Administration has determined these vaccines to be safe for public use.</p>	 <p>If I get the vaccine, will I still have to wear a mask?</p> <p>Yes. Both of these vaccines protect from the disease symptoms, but there is not enough data yet to determine if habits, focused on virus. It is important to continue to practice public health practices that are required to allow for safety of the individual and anyone they contact or interact with.</p>
 <p>What are the risks?</p> <p>Anaphylaxis is a rare outcome when receiving any vaccine, including the COVID-19 vaccines. The CDC has reports that some people have experienced allergic reactions—also known as anaphylaxis—after getting a COVID-19 vaccine. So far, in early January 2021, anaphylaxis has happened to 13 people receiving the Pfizer vaccine and one person receiving the Moderna vaccine. All were treated and there were no deaths. Out of the prior 70,000 people given the vaccine.</p>	 <p>Can someone get COVID-19 from the vaccine?</p> <p>No. The COVID vaccines do not contain live virus, thus will not carry a risk of causing the infection.</p>	 <p>Can I get my flu shot and COVID-19 shot at the same time?</p> <p>Yes. Neither vaccine should have been received in the last 2 weeks (14 days) prior to the vaccine. No other vaccines can be scheduled for the 2 weeks (14 days) following the vaccine.</p>	 <p>For how long will I be protected?</p> <p>Presently, there isn't enough data to give a clear time frame of the vaccine's long-term protection capabilities. Repeat vaccination may be required similar to an annual flu shot, or it may be sufficient after the first round. We just don't know yet. Continue using recommended public health safety measures.</p>

Access Patient Education



Select VIS and Print/Save/Display in Portal

The screenshot shows a web browser window titled "Patient Education". The address bar shows "vis, vaccine information statement | Page 1 | Search Results | Pediatr...". The page content includes a search bar with the text "select a patient's problem, diagnosis, medication, or lab test". The user is identified as "John Canning" with a profile icon "M" and a source of "AAP". The main content area is titled "VACCINE INFORMATION STATEMENT" and features the heading "Tdap (Tetanus, Diphtheria, Pertussis) Vaccine: *What You Need to Know*". Below this, there is a section "1. Why get vaccinated?" with a sub-heading "Tdap vaccine can prevent tetanus, diphtheria, and pertussis." and a paragraph explaining the spread of these diseases. A sidebar on the right provides information about language options: "Many vaccine information statements are available in Spanish and other languages. See www.immunize.org/vis" and "Hojas de información sobre vacunas están disponibles en español y en muchos otros idiomas. Visite www.immunize.org/vis". At the bottom of the page, there are buttons for "Save As Document", "Print", and "Close". The taskbar at the bottom shows the "start" button, "PCC EHR", "Patient Education", and the time "09:27 AM".

vis, vaccine information statement | Page 1 | Search Results | Pediatr... | Vaccine Information Statement: Tdap

Vaccine Information Statement: Tdap 1 / 2

VACCINE INFORMATION STATEMENT

Tdap (Tetanus, Diphtheria, Pertussis) Vaccine: *What You Need to Know*

Many vaccine information statements are available in Spanish and other languages. See www.immunize.org/vis

Hojas de información sobre vacunas están disponibles en español y en muchos otros idiomas. Visite www.immunize.org/vis

1. Why get vaccinated?

Tdap vaccine can prevent tetanus, diphtheria, and pertussis.

Diphtheria and pertussis spread from person to person. Tetanus enters the body through cuts or wounds.

- **TETANUS (T)** causes painful stiffening of the

Also, adults should receive a booster dose of **either Tdap or Td** (a different vaccine that protects against tetanus and diphtheria but not pertussis) **every 10 years**, or after 5 years in the case of a severe or dirty wound or burn.

Tdap may be given at the same time as other vaccines.

Save As Document Print Close

start PCC EHR Patient Education 09:27 AM

Display in Portal

The screenshot shows a web application window titled "Patient Education" with a "Document Viewer" sub-window. The document is titled "VACCINE INFORMATION STATEMENT" and "Tdap (Tetanus, Diphtheria, Pertussis) Vaccine: What You Need to Know". The document content includes sections for "1. Why get vaccinated?", "3. Talk with your health care provider", and a list of symptoms. A red arrow points to the "Display in Portal Documents" checkbox in the right-hand metadata panel, which is checked. The metadata panel also includes fields for Title, Category, Document Date, Needs to be Signed by Provider, Note (Internal), and Tasks. At the bottom of the window, there are buttons for "Print", "Sign", "Discard", and "Save". The system tray at the bottom shows "start", "PCC EHR", "Patient Education", "Document Viewer", and the time "99 : 43AM".

VACCINE INFORMATION STATEMENT

Tdap (Tetanus, Diphtheria, Pertussis) Vaccine: What You Need to Know

Many vaccine information statements are available in Spanish and other languages. See www.immunize.org/vis

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1. Why get vaccinated?

Tdap vaccine can prevent tetanus, diphtheria, and pertussis.

Diphtheria and pertussis spread from person to person. Tetanus enters the body through cuts or wounds.

- **TETANUS (T)** causes painful stiffening of the muscles. Tetanus can lead to serious health problems, including being unable to open the mouth, having trouble swallowing and breathing, or death.
- **DIPHtheria (D)** can lead to difficulty breathing, heart failure, paralysis, or death.
- **PERTUSSIS (aP)**, also known as "whooping cough," can cause uncontrollable, violent coughing that makes it hard to breathe, eat, or drink. Pertussis can be extremely serious especially in babies and young children, causing pneumonia, convulsions, brain damage, or death. In teens and

Also, adults should receive a booster dose of either Tdap or Td (a different vaccine that protects against tetanus and diphtheria but not pertussis) every 10 years, or after 5 years in the case of a severe or dirty wound or burn.

Tdap may be given at the same time as other vaccines.

3. Talk with your health care provider

Tell your vaccination provider if the person getting the vaccine:

- Has had an **allergic reaction after a previous dose of any vaccine that protects against tetanus, diphtheria, or pertussis**, or has any **severe, life-threatening allergies**
- Has had a **coma, decreased level of consciousness, or prolonged seizures within 7 days after a**

Page 1 of 2

Vaccine_Information_Statement_Tdap.pdf 06/21/24 09:43am

Rotate Page Rotate Document Fit Width Zoom to Fit

Tags

Title
Vaccine Information Statement: Tdap

Category
Patient Education

Attach Document
select a visit, phone note, etc...

File as Unattached Document
Document Date:
 Display in the Visit History Index

Needs to be Signed by Provider:
select a provider

Display in Portal Documents
Document will be visible to all portal users attached to the patient.

Note (Internal)

Tasks

Task:
select a task

To:
select a user

Due: 06/21/24

Note:

Print Sign Discard Save

Save As Document Print Close

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Immunization Forecasting

- HLN and the Immunization Calculation Engine (ICE)
- The forecast **is** a clinical decision **AID**
- Calculates vaccine forecasts using DOB, immunization CVX code, administration date, gender, evaluation date (always today's date)
- Forecasts in the EHR vs Retrieve Imms
- Future development: immunity, titers, contraindications

Best Practice Workflows

- Scan to administer vaccine
- Select VIS sheet
- Select VFC status
- Print Immunization form or send to patient portal



Immunization School Form

Printed Immunization Record (differences between states, not just standard PDF)

Remember, best to keep it simple with grouping like Vaccines together.

Immunization Registry

- Workflow
- Key elements
 - Demographics
 - Immunization
- Review reports
- Review responses

Immunization Registry Workflow

New Patient

Add all demographics

- Name, DOB, Share with Registry (if applicable), Race, Ethnicity, Language, Birth Order (if applicable)
- Home account, Address, Phone

Add immunization history

Immunization Registry Workflow

Existing Patient

- Confirm/update demographic information
- Query or Update any immunization history
- Add/update VFC eligibility for any immunizations ordered that day

Journey to the IIS



**UC
2024**

Immunization Information Systems (IIS)
AKA your state immunization registry

Journey to the IIS

✓ HPV Administered 06/21/24 To: Maria Horn

VFC: VFC eligible - Medicaid/Medicaid Managed Care (V02)

Dose: 0.5 mL

Lot #: 78965 (Federal funds) Scan

VIS: Human papillomavirus Vaccine (Gardasil) VIS (E) + VIS Given: 06/21/24

Note: enter a note

Administered Route: Intramuscular Site: Left Deltoid

Refused Reason: select a reason

Contraindicated Reason: select a reason

Canceled

Administered by: Zelda Zen, LNA 06/21/24 3:58pm

DISCARD CHANGES **SAVE CHANGES**

Immunization order completed.

Once saved, it is queued to be sent.

Journey to the IIS

Queued
immunization
records are
batched and
sent to the PCC
Immunization
Hub



Journey to the IIS

PCC Hub sorts...



...and transforms
all the messages
received.

Journey to the IIS



PCC Hub sends all the transformed messages to each IIS

In some states they go to a Health Information Exchange (HIE) who sends them on to the IIS.

Journey to the IIS

The IIS processes the messages and add the records to the patients listed in the registry



Journey to the IIS

ACKnowledgement
message...



...returned from the
registry through the
PCC HUB

Journey to the IIS

These **ACK** messages can be reviewed through the **Immunization Registry Response Viewer** with information on what records were imported along with any additional warnings and errors.

Date/Time Received	Patient Name	PCC #	Response Status	Errors	Warnings	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	✓
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	✓
03/13/18 11:35am	Elizabeth Patterson	91442	Submission Rejected	2	2	✓
03/13/18 8:35am	Johnny Canning	33377	Submission Rejected	2	2	
03/12/18 10:35am	Brian Case	61098	Submission Rejected	1	0	✓

Response Severity: Errors, Warnings | Dates: All | From 04/19/18 to 04/20/18 | Reviewed: All Statuses

Care Center: All Care Centers

Page Up | Page Down | Page 1 / 1 | Close | Open

Decoding IIS responses

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

Decoding IIS responses

Demographics

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

Retrieving Immunization Records



Retrieving Immunization Records

Immunization History Janis Joplin 4 yrs, 10 mos 3/01/16 F

Vaccines Retrieve Imms Print

DTaP	
Tdap	
Hepatitis A	

NAME

ADDRESS

DOB

And if there is a single match...

Retrieving Immunization Records

You can see what that patient has recorded in the registry...

Retrieve Immunizations

Retrieve Immunizations - Confirm Patient Match

Patient Demographics	PCC EHR	CAIR
Patient Name	Janis Joplin	JANIS JOPLIN
Date of Birth	03/01/2016	03/01/2016
Sex	Female	F
Home Address	16 Moonbeam Half Moon Bay, CA 94019	16 MOONBEAM HALF MOON BAY, CA 94019
Mother's Maiden Name		JULIE JOPLIN
Multiple Birth	No	No

Cancel Next

Retrieve Immunizations

Retrieve Immunizations - Results

Janis Joplin 4 yrs, 10 mos 3/01/16 F

Vaccine History (CAIR)

DTaP-HepB-IPV	05/01/2016	07/01/2016
Hib-PRP-T	05/01/2016	07/01/2016
PCV13	05/01/2016	07/01/2016

Diseases (CAIR)

No vaccine-preventable diseases reported for this patient

Forecasting Results (CAIR)

Vaccine Family	Dose #	Recommended Date	Minimum Date	Past Due Date	Maximum Date
DTP/aP	3rd	09/01/2016 (6m)	07/29/2016		
HepA	1st	03/01/2017 (1y)	03/01/2017		
HepB	3rd	09/01/2016 (6m)	08/26/2016		
Hib	4th	03/01/2017 (1y)	03/01/2017		
Influenza-seasnl	1st	08/01/2020 (4y 5m)	09/01/2019		
MMR	0th	03/01/2017 (1y)	03/01/2017		
PneumoConjugate	4th	03/01/2017 (1y)	03/01/2017		
Polio	4th	03/01/2020 (4y)	03/01/2020		
Varicella	1st	03/01/2017 (1y)	03/01/2017		

Back Close Next

Retrieving Immunization Records

Retrieve Immunizations

Retrieve Immunizations - Import Janis Joplin 4 yrs, 10 mos 3/01/16 F

Selected immunizations will be added to the patient's Immunization History.

DTaP-HepB-IPV (CVX 110) as VFC DTaP-HepB-IPV ▾

- 05/01/2016
- 07/01/2016

PCV13 (CVX 133) as Prevnar 13

- 07/01/2016

Hib-PRP-T (CVX 48) - Not configured in PCC EHR

- 05/01/2016
- 07/01/2016

Back Close Import

...and import them into the chart

Best practices for submitting and retrieving records with your Immunization Registry

- Use CVX codes that match the immunizations being administered *example: DTaP could be 106 or 20*
- NDC codes can help confirm the CVX/MVX code match.
- Have patient demographics complete before adding immunizations to their chart.
- Know your state specific immunization reporting requirements: VFC eligibility, Funding Source, opt-in/out...
- Review reports in the EHR and your registry regularly.

Immunization Registry Helpful Links

Cross reference your vaccines by product name to find the CVX and MVX code.

<https://www2a.cdc.gov/vaccines/iis/iisstandards/vaccines.asp?rpt=tradename>

And can also be found here:

<https://learn.pcc.com/help/mvx-and-cvx-codes-in-pcc-ehr/>

Manage vaccine lots:

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

Review responses from immunization record submissions:

<https://learn.pcc.com/help/immunization-registry-response-viewer/>

Retrieve Imms:

<https://learn.pcc.com/help/retrieve-immunizations-bidirectional-registry-interface/>

Charge Posting

- Z23 selection
- Check for modifiers
- Verify Counseling
- Confirm 90461 pricing
- Why do my vfc vaccines have \$0.01?
- If practices are getting take-backs regarding this, what should they do?

Diagnoses								
Include Dx on Claim	ICD-10	Description	Linked Procedures					
<input checked="" type="checkbox"/>	Z23	Encounter for immunization	All None Select					
<input checked="" type="checkbox"/>	Z23	Encounter for immunization	All None Select					
<input checked="" type="checkbox"/>	Z23	Encounter for immunization	All None Select					
select an ICD-10 diagnosis								
Procedures Primary: Capital Blue Cross								
Procedures	Units	Price	Insurance	Ins Due	Ins Adj	Pers Due	Discount	Source
<input checked="" type="checkbox"/> 90707 MMR Vaccine	1	80.00	Primary	80.00	0.00	0.00	0.00	Post Charges
▼ Dx:	<input type="checkbox"/> Z23 Encounter for immunization <input type="checkbox"/> Z23 Encounter for immunization <input type="checkbox"/> Z23 Encounter for immunization							
<input checked="" type="checkbox"/> 90700 DTaP	1	50.00	Primary	50.00	0.00	0.00	0.00	Post Charges
▼ Dx:	<input type="checkbox"/> Z23 Encounter for immunization <input type="checkbox"/> Z23 Encounter for immunization <input type="checkbox"/> Z23 Encounter for immunization							
<input checked="" type="checkbox"/> 90670 Prevnar 13	1	170.00	Primary	170.00	0.00	0.00	0.00	Post Charges
▼ Dx:	<input type="checkbox"/> Z23 Encounter for immunization <input type="checkbox"/> Z23 Encounter for immunization <input type="checkbox"/> Z23 Encounter for immunization							
Totals:		300.00		300.00	0.00	0.00	0.00	

Coding

90460 vs 90471?

- With Counseling = 90460
 - Code for each vaccine
- Without Counseling = 90471
 - Code for first vaccine only

90461 vs 90472

- Use one 90461 for each additional component
 - MMRV = 90460 x 1, 90461 x 3
 - MMR + Varicella = 90460 x 2, 90461 x 2
- Use one 90472 for each additional vaccine
 - MMR + Varicella = 90471 x 1, 90472 x 1

Reporting for accuracy

- Vaccine Lot Manager
- Other Vaccine Reports?



Reporting: Vaccine Lot Manager

Vaccine Lot Manager X

Vaccine Lot Manager - Edit Lot

Lot

Immunization: MMR- Merck CVX: 03

Manufacturer: GlaxoSmithKline MVX: SKB

NDC: select NDC

Lot Number: 494YE

Expiration Date: 12/01/24

Funding Source: Private funds

Location:

► **Diluent**

Status

Available (Available lots can be selected for immunization orders)

Reserved

Depleted

Inventory Management

Adjustment Date: 06/20/24 7:29am

Adjustment Reason: select an adjustment reason

Note:

Current Quantity: 12 Doses

0 Doses

New Quantity: 12 Doses


Vaccine Inventory Transaction Log Open in Report Library

Adjustment Date/Time	Adjustment Reason	Adjustment Note	Adjustment User	Patient Name	Patient PCC #	Patient DOB	Patient Sex	Adjustment Increase Amount	Adjustment Decrease Amount	Balance of Doses
04/02/2024 10:20am	Increase - Shipment Received							10		10
04/23/2024 8:29am	Decrease - Administered								1	9
05/01/2024 4:14pm	Decrease - Administered								1	8
05/06/2024 12:22pm	Decrease - Administered								1	7
05/06/2024 3:29pm	Decrease - Administered								1	6
05/07/2024 2:22pm	Increase - Shipment Received							10		16
05/13/2024 4:04pm	Decrease - Administered								1	15
05/14/2024 10:01am	Decrease - Administered								1	14
05/14/2024 10:56am	Decrease - Administered								1	13

Other helpful Vaccine Reports:

Immunization Administration Count 

Immunization Administration Details 

Overdue Vaccine Recall 

Patient Immunization Administration Summary 

Patient Immunization-HPV Imm's

Vaccine Inventory Reconciliation Worksheet 

Vaccine Inventory Transaction Log 

Emergency Plan

EMERGENCY, Power is out...our Fridge quit...what is the Plan, do you have a Plan?



Scanner Raffle



Session Takeaways

1. Lifecycle of an immunization record
2. Reporting tools
3. Best practices

Questions?