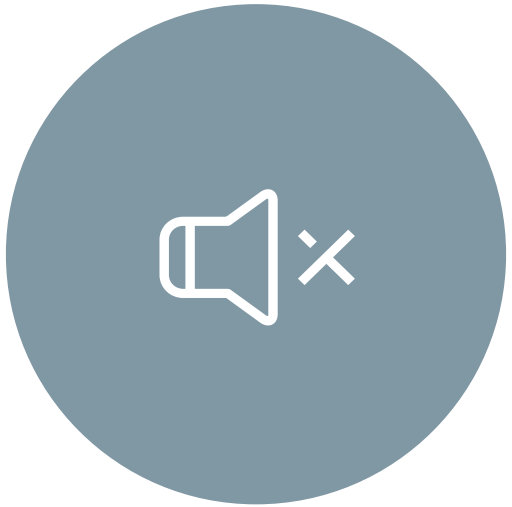
AIRA
AMERICAN IMMUNIZATION REGISTRY ASSOCIATION

# Discovery Session: Real-Time Readiness! Transforming IIS Inventory with VTrckS Data Automation

January 26, 2026
4:00 p.m. ET

# AIRA Discovery Session

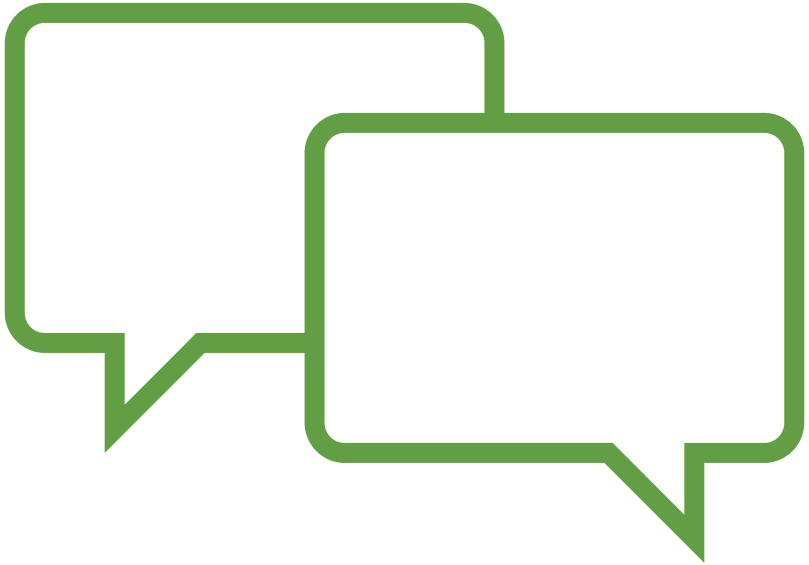


All phone lines
are muted

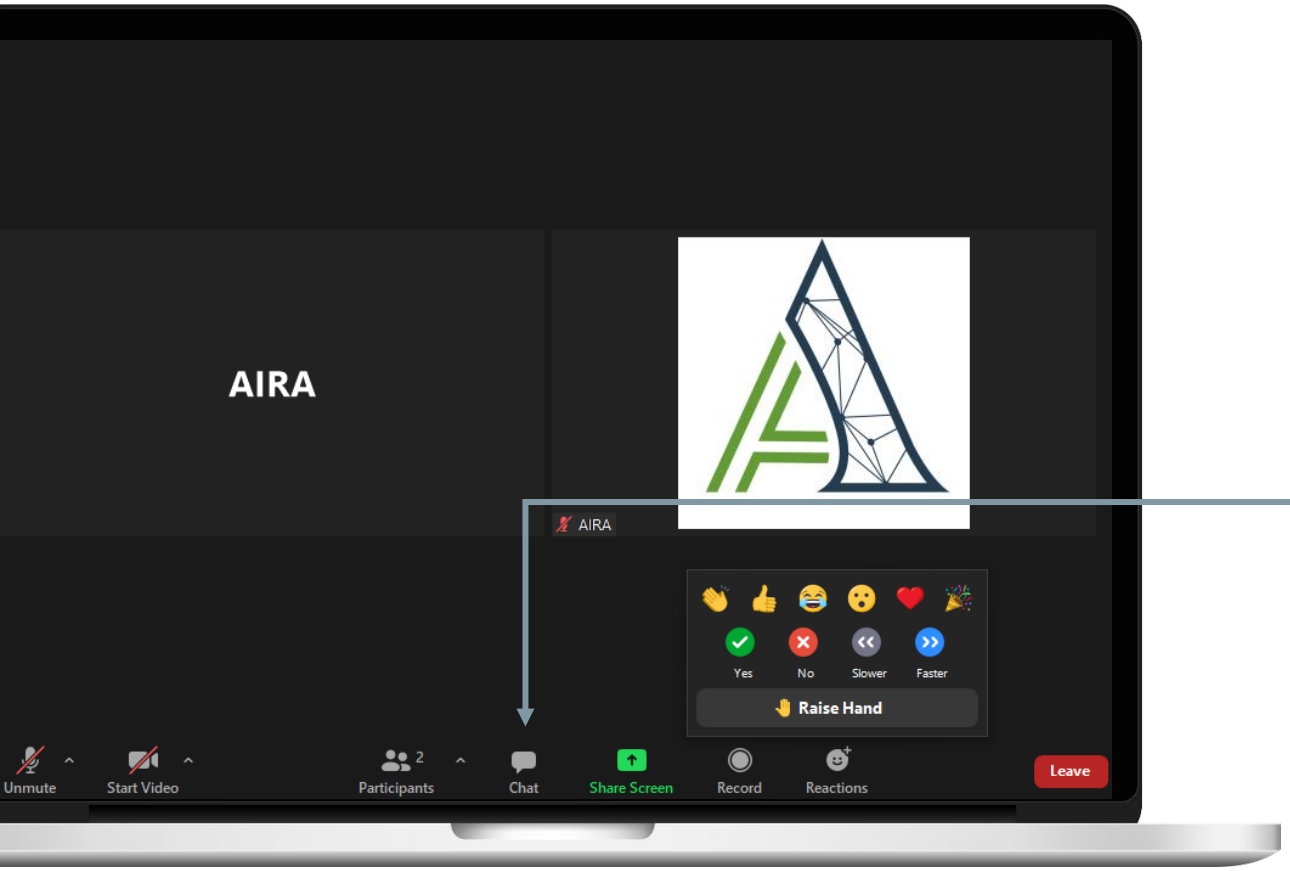
This meeting is being recorded
and will be posted in the
AIRA repository

# Technical Support

If you experience any technical issues during the meeting, please contact **Skylar Adkins** via direct message in the Chat.



# Questions




## How do I ask a question?

There will be time allotted for Q&A following the presentations.

If you think of a question during the presentations:

Select the chat icon and type your question into the chat box.

# Today's Presenters

- **Kimberly White,** Health Program Associate, Connecticut
- **Georgia Elysee,** Vaccines for Children (VFC) Program Unit Chief, Bureau of Immunizations, New York City

AIRA Discovery Session:

# Real-Time Readiness! Transforming IIS Inventory with VTrckS Data Automation Confirmation

Presented by: Kimberly White
Connecticut Department of Public Health

# Disclosure Statement

The authors of this presentation declare that they have no relevant or material financial interests that relate to the research described in this presentation.

# Background

The Vaccine Tracking System (VTrckS) is a Centers for Disease Control and Prevention (CDC) application that jurisdictions are required to use for vaccine management - orders, transfers, wastage, inventory on hand and shipment information are all reported by jurisdictions to VTrckS.

Since jurisdictions use their Immunization Information System (IIS) for inventory management, the External Information System (EXIS) is used to exchange information between VTrckS and IIS. This is a manual process that:

- Must be performed multiple times a day to keep both systems in sync.
- Leaves room for error
- Is reliant on staff scheduled to work to conduct the downloads
- Time consuming
- Information could be potentially delayed

# Connecticut's Immunization Landscape

- Connecticut is a universal state
- Our IIS CT WiZ- an Envision product
- In 2025 Connecticut had:
  - 638 enrolled VFC providers
  - 10,562 orders placed by providers
  - Shipped 1,389,552 doses of VFC vaccine

# Application Programing Interface (API)

In 2023, CDC announced an opportunity for jurisdictions to apply for the Application Programming Interface (API) grant.

This API is a system-to-system interface between the jurisdiction's IIS and VTrckS.

The API would have the following benefits for the jurisdiction’s:

- Real time information for providers
- Automation of processes
- Less strain on jurisdiction staff

**Connecticut was awarded this grant and kicked off the project in September 2023**

# API Implementation Phases

## Phase 1

Grant-funded

**Inbound**

- Shipment data

Completed 2024

## Phase 2

Grant-funded

**Inbound**

- Vaccine list: federal, non-federal and pandemic
- County codes

Completed 2024

## Phase 3

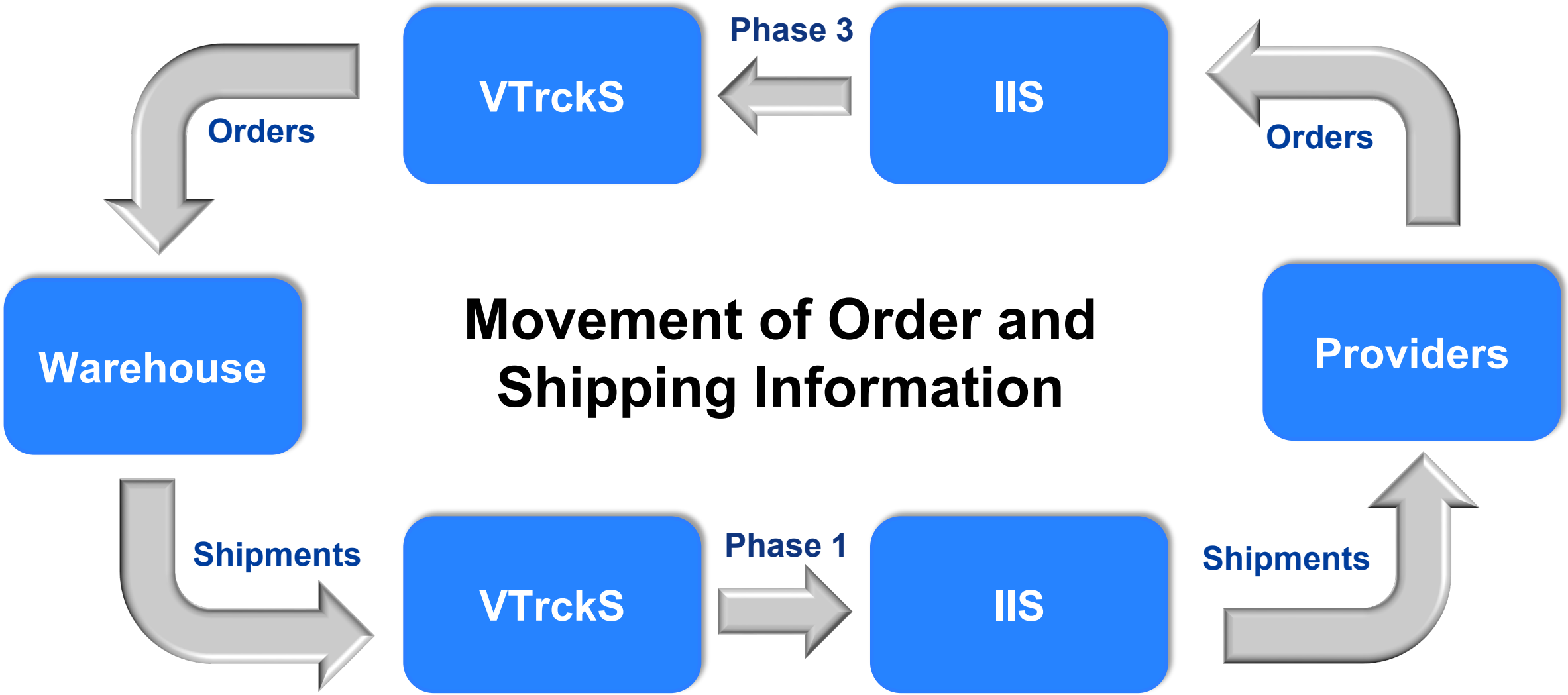
Will be funded through Direct Vendor Contract

**Outbound**

- Provider master data, inventory on hand, orders, returns and wastage

Currently in Development

# EXIS Process



# Implementation Process

Calls with our jurisdiction, CDC and our IIS vendor

A workplan was created with CDC with target dates to complete different steps of the implementation process

Separate from the CDC calls, Connecticut met weekly with our IIS vendor to discuss features and design of the API

IIS vendor staff was awarded specific access to SAMS to build and test the interface

# EXIS Shipment Data

Untitled | CTA_SHIPMENTS_0001730181.dat

File Edit View

```
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PS1,N,GlaxoSmithKline Holdings (Americas)
```

# Results

## Phase 1 (Shipment Data):

- Downloads occur daily at 7:30 A.M. and 12:30 P.M. Monday-Friday.
- Option for ad hoc downloads.
- Staff can see all downloads that occurred, with number of records and errors.

# VTrckS Interface API - Inbound

Queue Shipment Run

## Filter Options

Run Start Date *
04/04/2025

Run End Date *
04/04/2025

API

Filter

## Filtered Results

| Run Date & Time | API | Shipment Date Range | Total Records | Errors | Warnings | Status | Created | Audit | Action |
|---|---|---|---|---|---|---|---|---|---|
| 4/4/2025 12:30 PM | VTRCKS SHIPMENT API | 04/04/2025 - 04/04/2025 | 0 | 0 | 0 | COMPLETE - NO PROBLEMS | | | VIEW |
| 4/4/2025 7:30 AM | VTRCKS SHIPMENT API | 04/03/2025 - 04/04/2025 | 34 | 1 | 1 | HAS ERRORS | | | VIEW |

Showing 1 to 1 of 2 entries

← Previous 1 Next →

Errors and Warnings

## IMPORT DETAILS

| Import ID | Run Date & Time | Shipment Date Range | Total Records | Processed Records | Errors | Warnings | Status |
|---|---|---|---|---|---|---|---|
| 7183 | 4/4/2025 7:30 AM | 04/03/2025 - 04/04/2025 | 34 | 32 | 1 | 1 | HAS ERRORS |

## IMPORT LOG

Export Log

| Type | Comments |
|---|---|
| ERROR | 20250328105601 / 130 : VACCINE ORDER LINE NUMBER 130 NOT FOUND IN SYSTEM - LINE NOT IMPORTED |
| WARNING | 20250401417002 / 1 : DUPLICATE VACCINE ORDER ID/LINE COMBINATION FOUND |

Showing 1 to 2 of 2 entries

# Results

## Phase 2 (NDC lists and county codes):

- Downloads occur weekly on Mondays.
- Option for ad hoc downloads available.
- Staff can see all downloads that occurred, with number of records and errors.

# VTrckS Interface API - Inbound

Queue Shipment Run

## Filter Options

Run Start Date *
03/31/2025

Run End Date *
03/31/2025

API

Filter

## Filtered Results

| Run Date & Time | API | Shipment Date Range | Total Records | Errors | Warnings | Status | Created | Audit | Action |
|---|---|---|---|---|---|---|---|---|---|
| 3/31/2025 12:30 PM | VTRCKS SHIPMENT API | 03/31/2025 - 03/31/2025 | 116 | 0 | 0 | COMPLETE - NO PROBLEMS | | | VIEW |
| 3/31/2025 7:30 AM | VTRCKS SHIPMENT API | 03/28/2025 - 03/31/2025 | 9 | 0 | 0 | COMPLETE - NO PROBLEMS | | | VIEW |
| 3/31/2025 1:45 AM | VTRCKS PANDEMIC NDC LIST | | 0 | | | COMPLETE - NO PROBLEMS | | | VIEW |
| 3/31/2025 1:30 AM | VTRCKS NON FEDERAL NDC LIST | | 10 | | | COMPLETE - NO PROBLEMS | | | VIEW |
| 3/31/2025 1:15 AM | VTRCKS FEDERAL NDC LIST | | 99 | | | COMPLETE - NO PROBLEMS | | | VIEW |
| 3/31/2025 1:00 AM | VTRCKS COUNTY CODES DATA | | 3299 | | | COMPLETE - NO PROBLEMS | | | VIEW |

# Conclusions

- Providers received shipment information consistently
- No delays due to staff schedule, holidays, snow days, etc.
- Staff have more time to work on other tasks
- Results of downloads are easily accessible to CTDPH staff

# Next Steps

- Connecticut has begun development of phase 3
- Once phase 3 is completed, all downloads will be automatic and will no longer require any manual processes

# Acknowledgements

Special thank you to all those who have helped with the API process:

- Alicia Bruno, CT Department of Public Health
- Scott Legault, CT Department of Public Health
- Nancy Sharova, CT Department of Public Health
- Kimberly White, CT Department of Public Health

# Thank you!

**Kimberly White**
**Health Program Associate**
Infectious Diseases Branch
Immunization Program
Connecticut Public Health
Kimberly.A.White@ct.gov

# Integrating CDC's Vaccine Tracking System (VTrckS) Application Programming Interface (API) with NYC's Vaccine Inventory Management Application

**Georgia Elysee, MPH, Vaccines for Children Program Unit Chief**

**NYC Department of Health and Mental Hygiene**

**January 26, 2026 - AIRA Discovery Session**

**Real-Time Readiness! Transforming IIS Inventory with VTrckS Data Automation**

NYC Health

# Outline

- Background
- Objectives
- Methods
- Results
- Conclusion
  - Key Outcomes and Benefits
  - Next Steps

NYC Health

# Background

# Citywide Immunization Registry (CIR) Overview

- The Immunization Information System (IIS) for New York City (NYC)
  - Began citywide in 1997
  - Contains >15 million patient records and >180 million immunizations
  - The Online Registry is the CIR's user interface for providers
  - Reporting of immunizations for children 0-18 years is mandatory
  - Reporting for adults 19 years and older requires consent

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# Partnership with HLN Consulting

- HLN has provided software development and support services to the CIR continuously since the year 2000
- CIR owns the copyright for its source code
  - CIR has shared some of its open-source components

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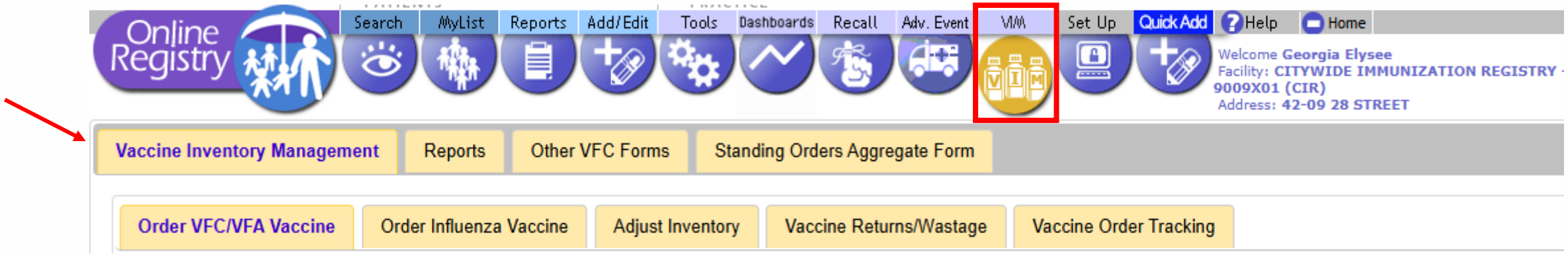
# NYC's Vaccination Programs

- Vaccines for Children (VFC) Program
  - ~1,200 provider sites enrolled
  - NYC distributes ~3 million doses of vaccines annually
- Vaccines for Adult (VFA) Program/COVID-19 Bridge Access
  - Ended in August 2024
  - 145 provider sites enrolled
  - Distributed >21,000 COVID-19 doses
- Mpox Program
  - Ended August 2024
  - 129 provider sites enrolled
  - Distributed >10,000 Jynneos doses

NYC Health

# Vaccine Inventory Management (VIM) Module




- In 2013, NYC launched the public facing VIM module for VFC providers in the CIR Online Registry user interface
  - Vaccine ordering
    - Ordering recommendations based on reporting, inventory, seasonality and a 5-week safety stock
  - Automatic inventory decrementing upon vaccine administration
  - Vaccine wastage/expiry reporting
  - Order status tracking
  - Ordering and inventory reports

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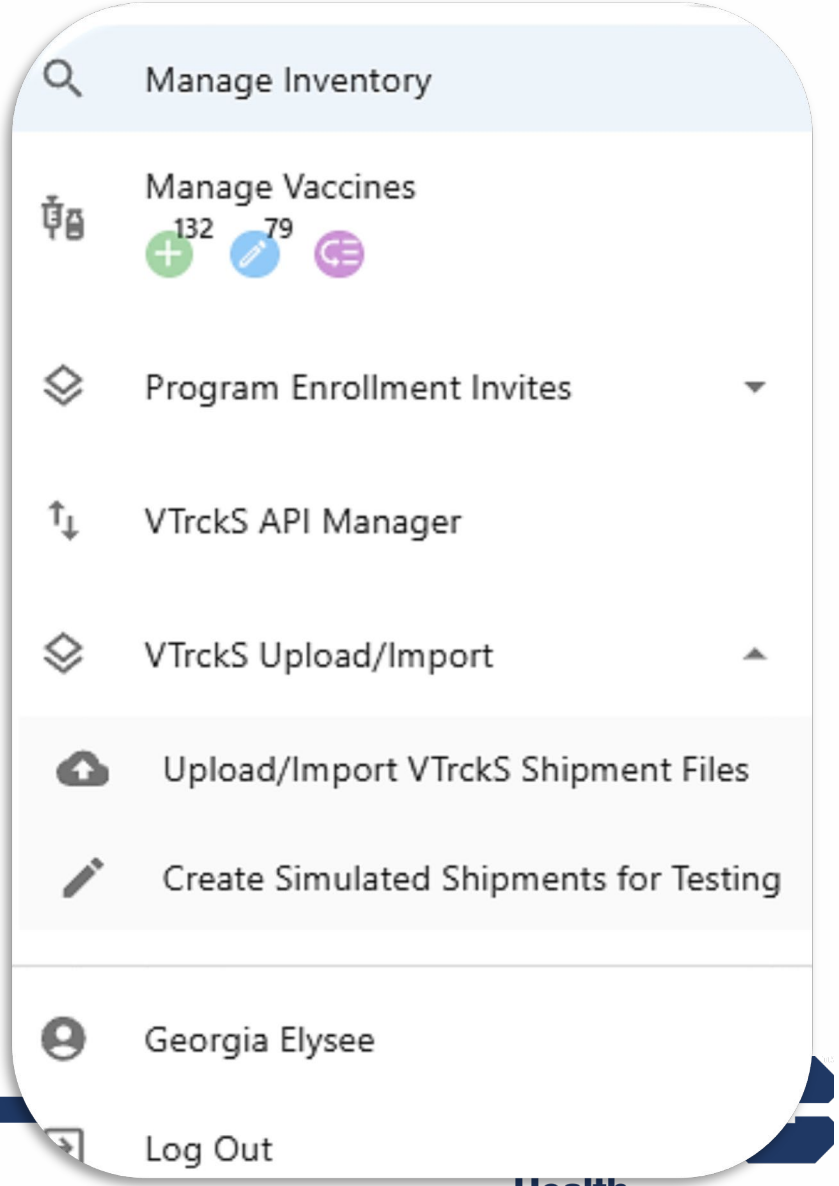
# Internal Vaccine Inventory Management Application (VIM App)

- Developed at the start of the COVID-19 vaccination campaign
- Utilized by immunization staff to document and track vaccine transfers between facilities
- Provided access to real-time updates of vaccine inventory
- Addressed challenges of vaccine distribution including urgent vaccine needs, changing vaccine availability, and supply limitations




Health

# Federal Vaccine Roll-out History

## 2020

- New COVID-19 Vaccine Products
- Controlled Vaccine Ordering and Distribution by CDC

## 2021-2023

- Additional COVID-19 Vaccine Products
- MPOX Outbreak - Jynneos Vaccine
- RSV Immunization Products on CDC Allocation
- COVID-19 Vaccine Commercialization

## 2024

- Jynneos Vaccine Commercialization
- RSV Immunization Products on CDC Allocation

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# Rapid federal vaccine roll-out led to an inefficient and unmanageable manual vaccine update process in VIM.

1

VTrckS VACCINE TRACKING SYSTEM

Partnering for Health. Partners for Life.

2

3

Online Registry

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# Vaccine Management Automation

- The pandemic, the federal vaccine roll-out, and ordering controls on vaccine products highlighted the need for automated processes and the elimination of:
  - Manual updates of available vaccine product details (e.g., NDC, CVX, brand, manufacturer, cost)
    - Heavily dependent on CIR vendor availability
      - Pivot to focus on CIR vaccine updates
      - Time sensitive updates

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# Program Objectives

- Increase overall efficiency of vaccine management
  - Responsiveness, timeliness and availability of vaccine products for providers
- Decrease dependency on CIR staff and vendor
- Modernize and enhance the CIR
- Improve NYC's preparedness for emergency public health events involving vaccine preventable diseases

# Methods

# CDC's VTrckS API Grant

- Applied and received the Vaccine Tracking System (*VTrckS) Automation using an Application Programming Interface (API) Supplemental Grant: Phases 1 and 2* developed by CDC in July 2023
  - Phase 1 - Inbound vaccine shipment data
  - Phase 2 - Master data such as the Federal, Pandemic, Non-Federal vaccines and county codes lists
- Required an internal dashboard to manage, access, audit and handle errors

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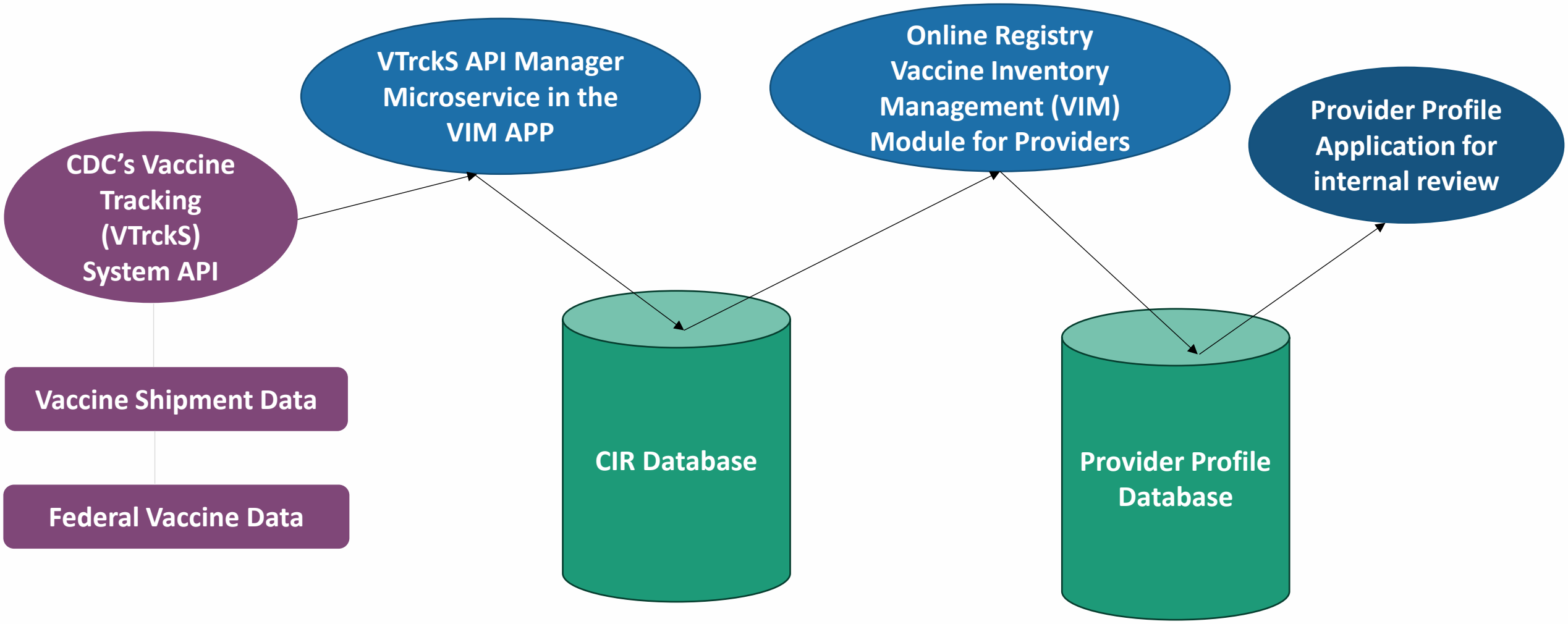
# VTrckS API Integration Overview

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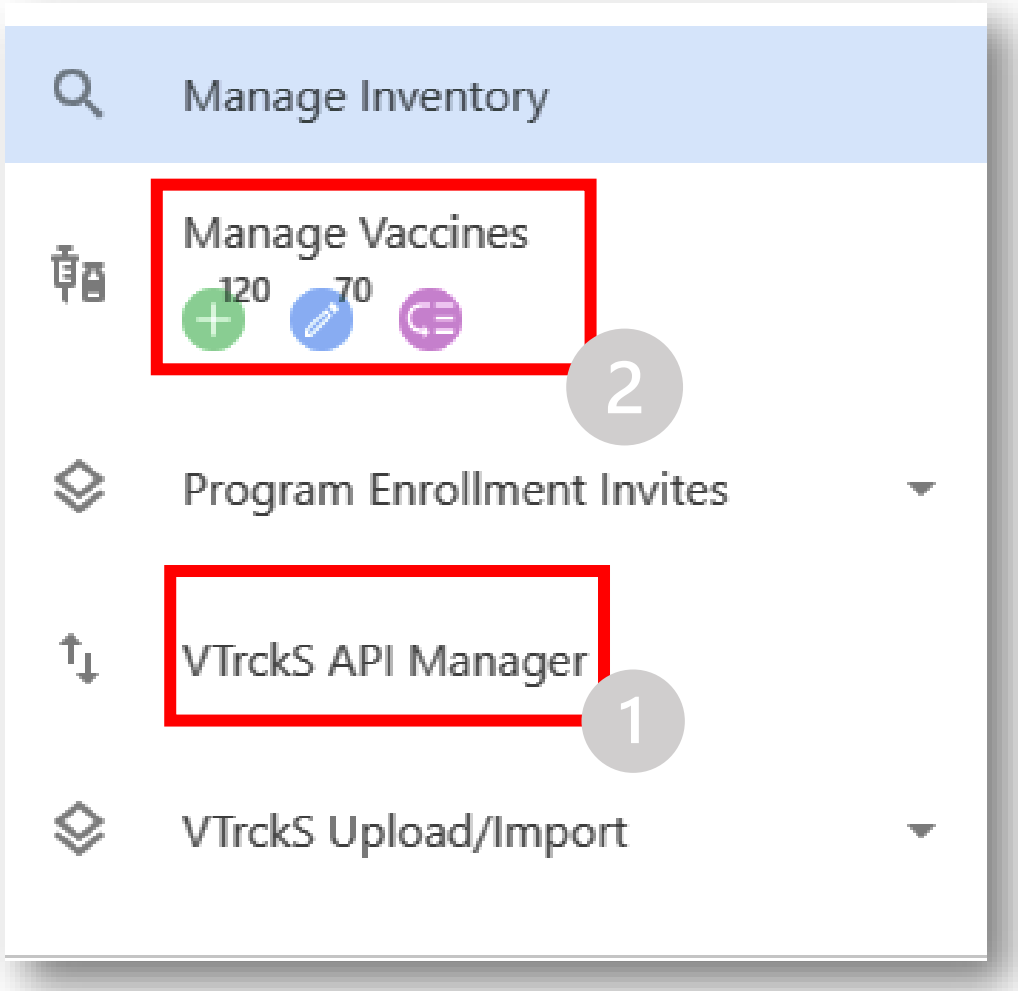
# VIM App Enhancements

- VTrckS API Manager
  - Dashboard launched March 2024
  - Activity Log menu
  - On-demand request capability
- Manage Vaccines
  - User interface launched in September 2024
  - Allows product updates and ordering control

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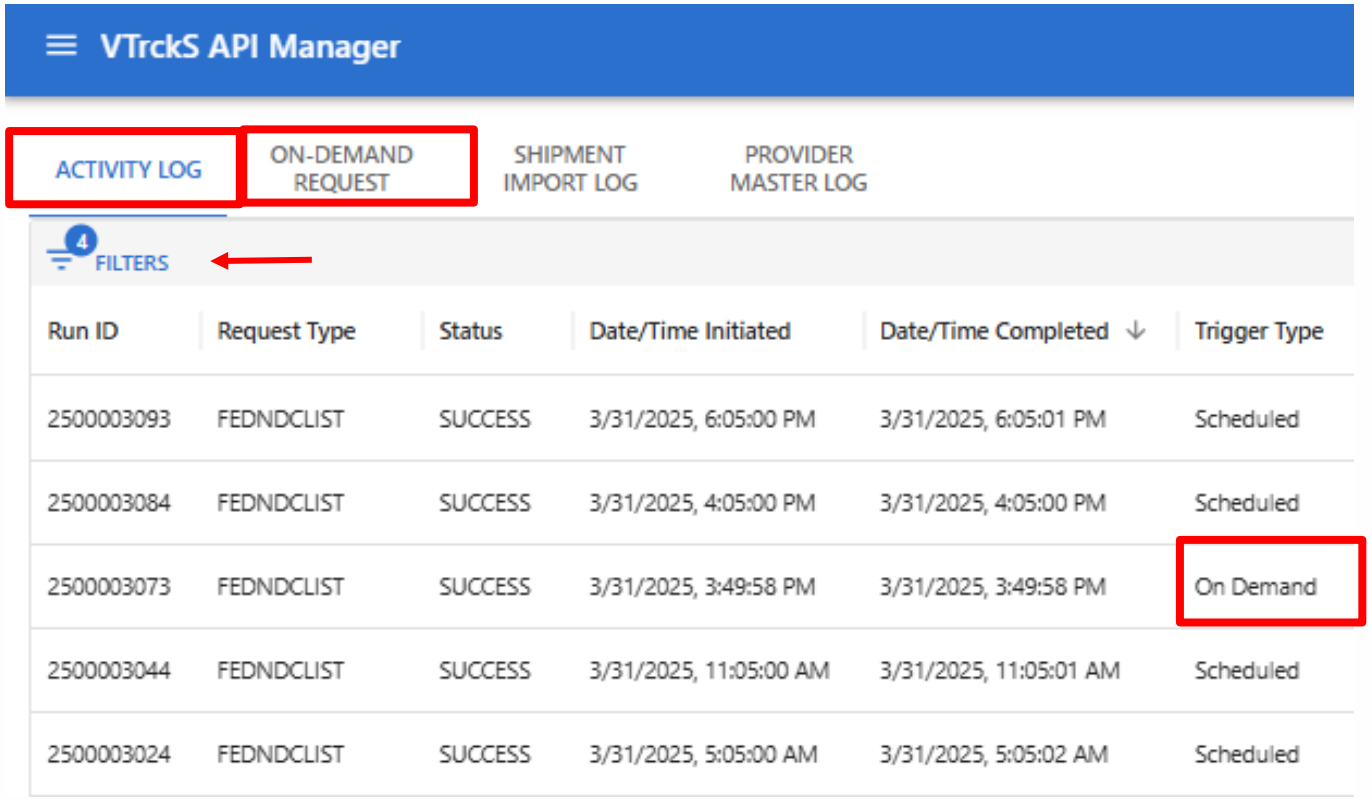
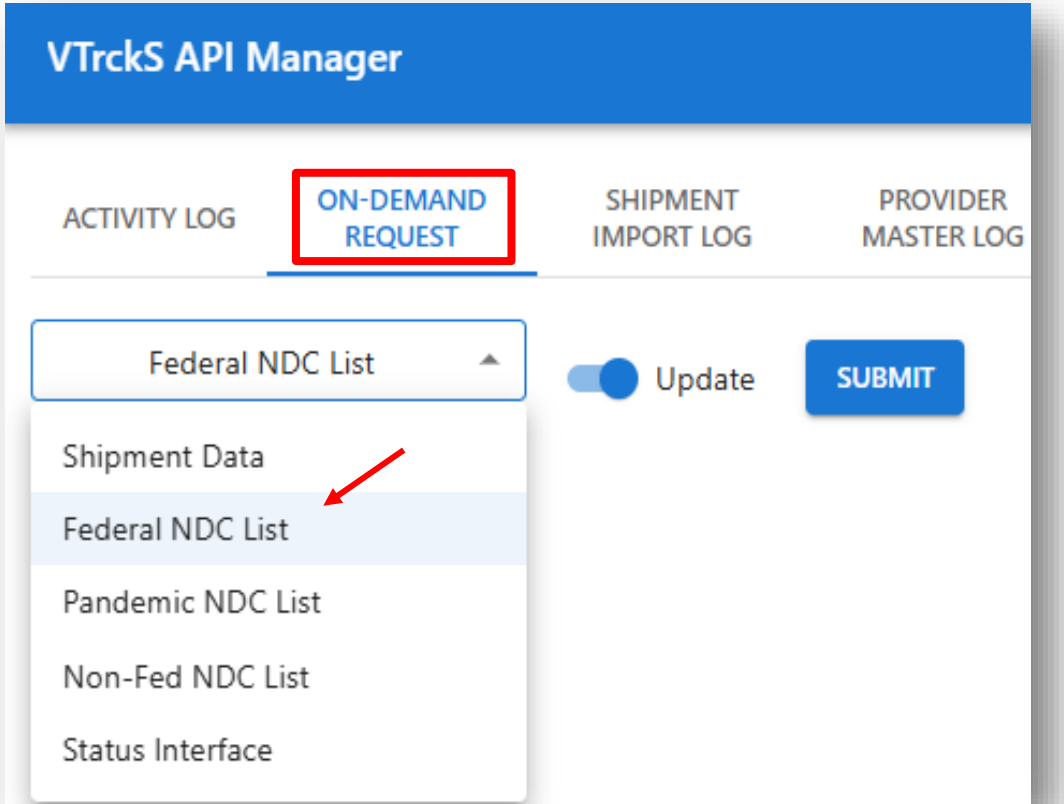
# VTrckS API Manager Dashboard

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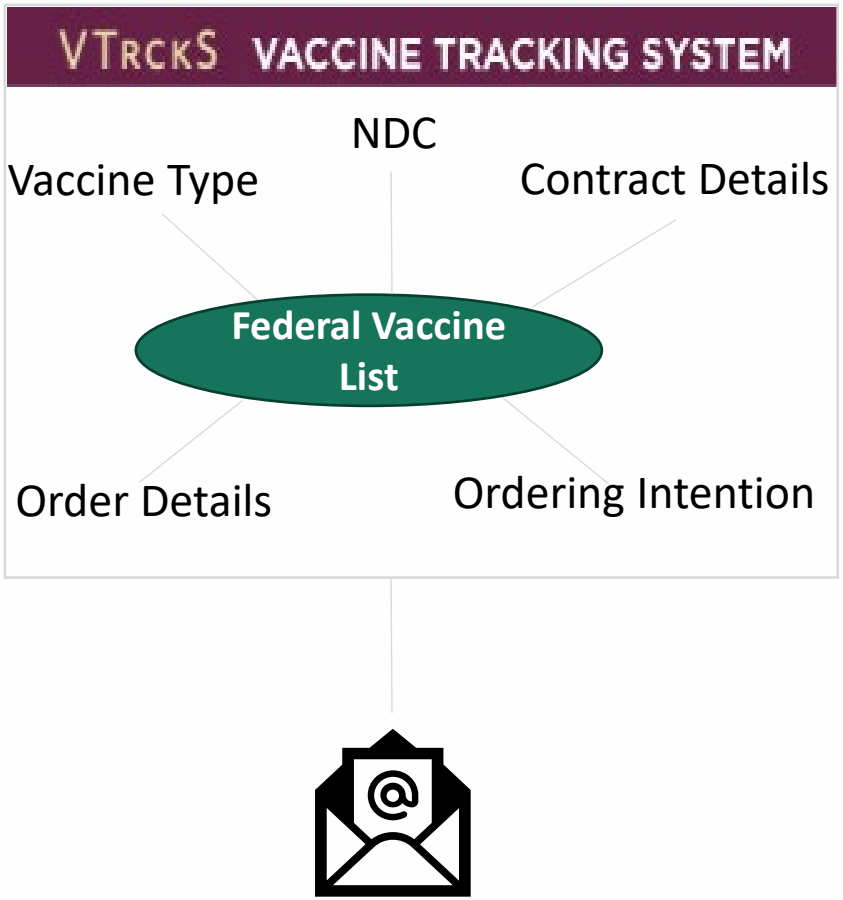
# Federal Vaccine List Data




- Vaccine Type
- NDC Availability
- Contract Details
  - Number
  - Dates
  - Cost
- Order Details
  - Direct Ship
  - Minimum Bulk
  - Override Flag
- Ordering Intention

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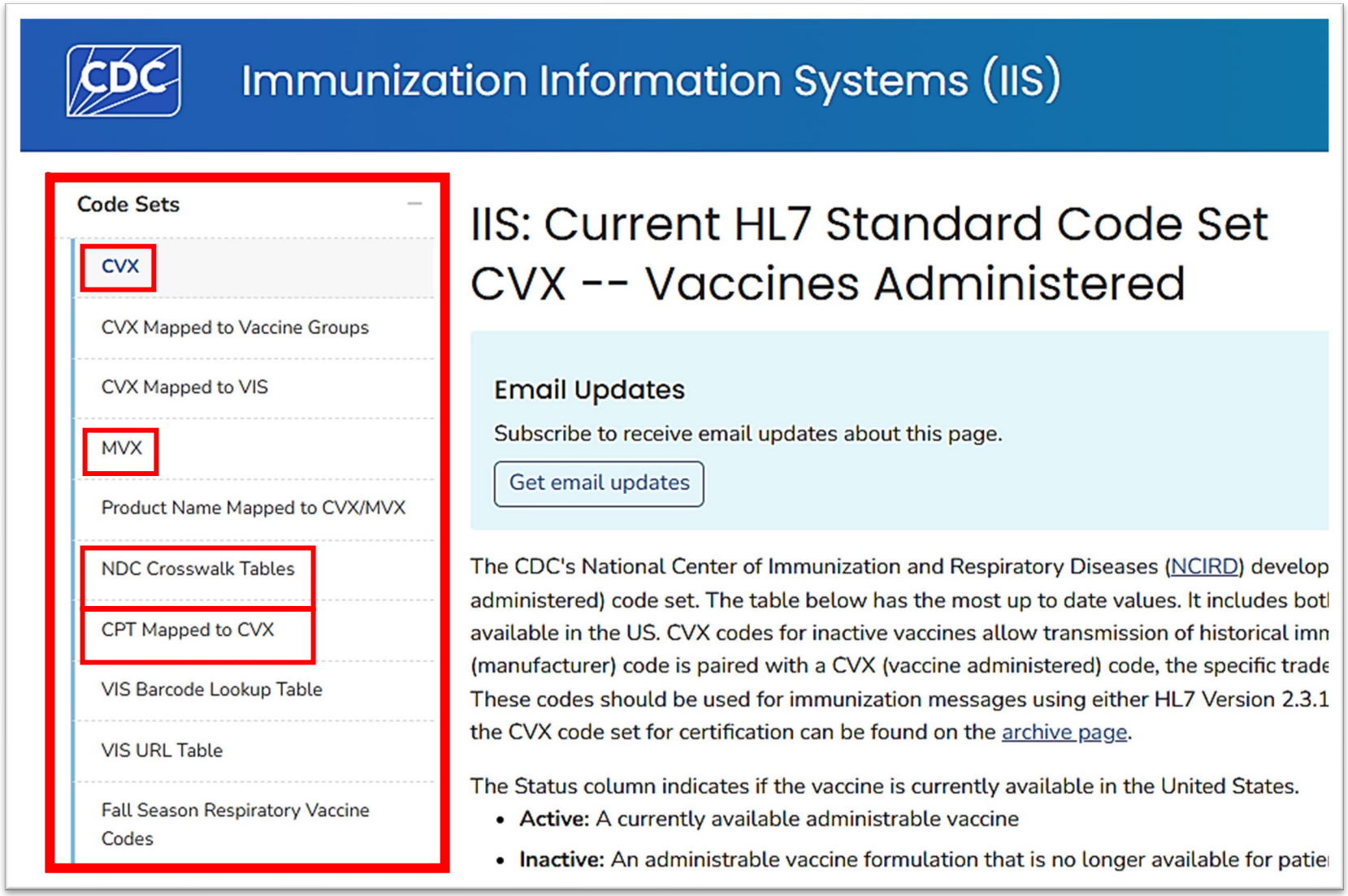
# CDC Web-based Resources: IIS Code Sets

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# VIM App Data Flow & CDC Web-based Resources

**VTrckS VACCINE TRACKING SYSTEM**

Vaccine Type

NDC

Contract Details

**Federal Vaccine List**

Direct Ship

Ordering Intention

**VIM APP**

Online Registry

Add **New** CVXs & NDCs Workflow

**Manage Vaccines User Interface**

**Update** CVXs & NDCs Workflow

**CDC's Web-based Resources**

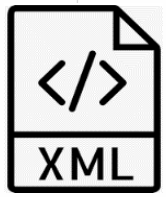
CVX

CPT Mapped to CVX

MVX

**IIS Vaccine Data Code Sets**

NDC Crosswalk Tables

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# Add New CVXs & NDCs Workflow in Manage Vaccines

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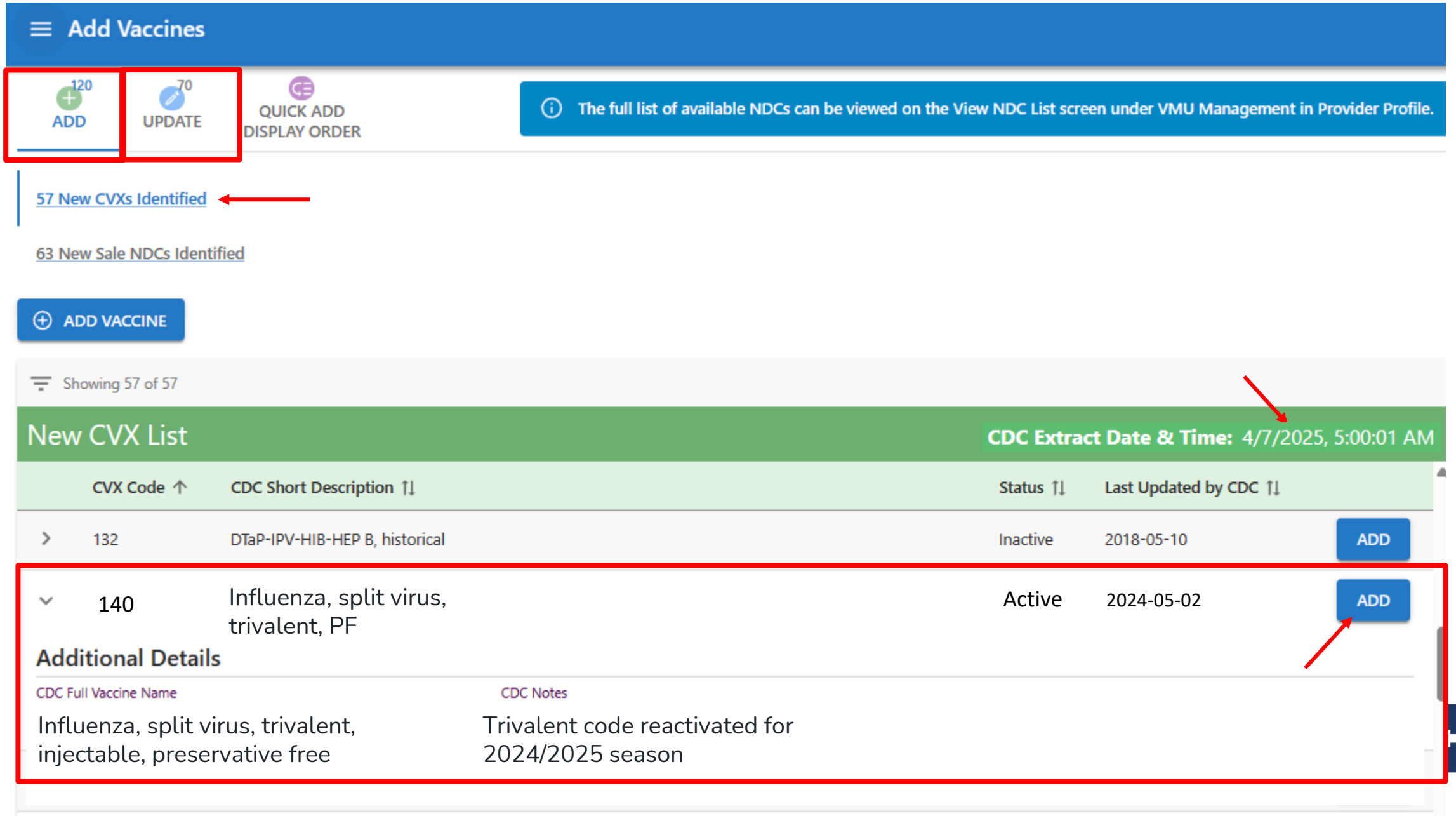
# Add New CVX


Add Vaccines
120
ADD
70
UPDATE
QUICK ADD
DISPLAY ORDER
The full list of available NDCs can be viewed on the View NDC List screen under VMU Management in Provider Profile.
57 New CVXs Identified
63 New Sale NDCs Identified
ADD VACCINE
Showing 57 of 57
New CVX List
CDC Extract Date & Time: 4/7/2025, 5:00:01 AM
CVX Code
CDC Short Description
Status
Last Updated by CDC
132
DTaP-IPV-HIB-HEP B, historical
Inactive
2018-05-10
ADD
140
Influenza, split virus, trivalent, PF
Active
2024-05-02
ADD
Additional Details
CDC Full Vaccine Name
Influenza, split virus, trivalent, injectable, preservative free
CDC Notes
Trivalent code reactivated for 2024/2025 season

# Review & Edit CVX Details

## Add CVX Identified from CDC Data

| CVX Code | CDC Short Description | CDC Full Vaccine Name |
|---|---|---|
| 140 | Influenza, split virus, trivalent, PF | Influenza, split virus, trivalent, injectable, preservative free |

| Status | CDC Notes | Last Updated by CDC |
|---|---|---|
| Active | Trivalent code reactivated for 2024/2025 season | 5/2/2024 |

| Last Modified By | Last Modified Date & Time |
|---|---|
| tammyseithel@hln.com | 3/21/2025, 9:58:44 AM |

☐ Not Otherwise Specified (NOS) ☐ HL7 Historical Only

Date Licensed: 01/01/1993

Vaccine Long Name *: Influenza, IIV3, IM, Presrv-free

Consumer Display Name *: Influenza, IIV3, p-free

Name used in MVR

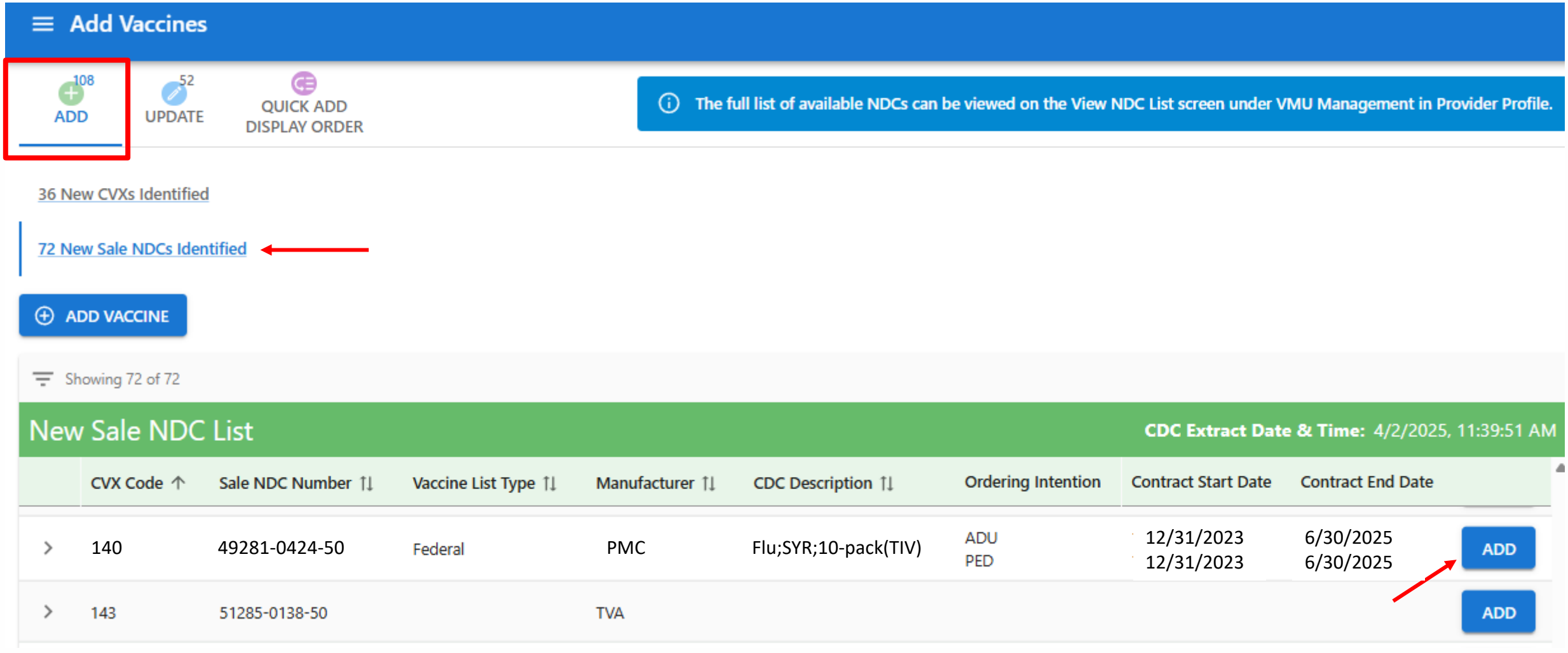
CIR Vaccine Type *: FLU

Vaccine Group *: 800 - Influenza

☐ Suppress OR ☐ Suppress in OR Add Current Vaccine List ☐ Suppress in Quick Add Vaccine List ☑ VFC Provided

CANCEL RESET SAVE & ADD NDC INFO SAVE

# Add New NDCs

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# Review & Add NDC Details

## CVX Details

Show additional CVX details

| CVX Code | Vaccine Long Name | Consumer Display Name | Status |
|---|---|---|---|
| 140 | Influenza, IIV3, IM, Presrv-free | Influenza, IIV3, p-free | Active |

| Sale NDC Number | Vaccine List Type | CDC Vaccine Type | CDC Description | Manufacturer * |
|---|---|---|---|---|
| 49281-0424-50 | Federal | FLU (M) | FLU; SYR; 10-pack (TIV) | PMC - Aventis Pasteur Inc. |

NDC Group *: Influenza

Ordering Increment: 10

Brand Name *: Fluzone IIV3 PF 6M+

Pkg Length: 0 in.

Pkg Width: 0 in.

Pkg Depth: 0 in.

Doses per Package: 10

Presentation *: 0.5 mL SYR; 10-pack

Device *: 0.5 mL SYR; 10-pack

ICD9

CPT Code: 90656 - Influenza virus vaccine, triva...

Allocated Vaccine - Quantity: 10,000

Allocated Vaccine - Minimum: 10

- [x] Returnable
- [x] Preservative Free
- [x] Store in Refrigerator
- [ ] Store in Freezer
- [ ] Store in Ultra-cold Freezer

## Pediatric (PED) Ordering Details

| Contract Number | Contract Start Date | Contract End Date | Minimum Bulk | Unit Size | Package Size | Cost |
|---|---|---|---|---|---|---|
| 2202418412 | 12/31/2023 | 6/30/2025 | 100 | 1 | 10 | $15.072 |

- [ ] Direct Ship
- [ ] Override Flag
- [x] Orderable
- [x] Inventory Current
- [x] Allow Manual Ordering

CANCEL | RESET | BACK | SAVE

# Update CVXs & NDCs Workflow in Manage Vaccines

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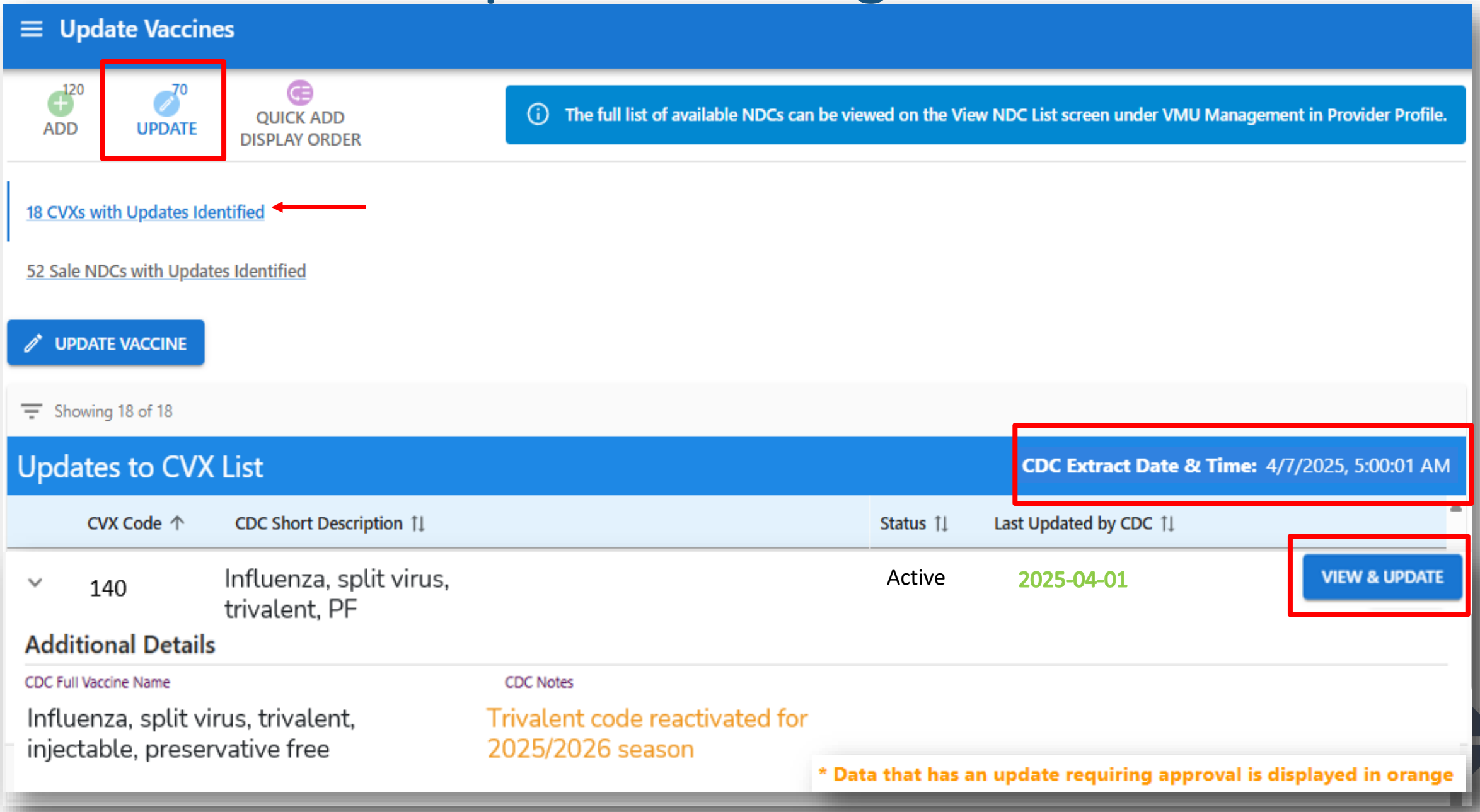
# Update Existing CVX



# Update CVX & Confirm Changes

## Updates Identified on CVX Data

Review and apply or ignore the updates made to CVX Code **140.** The CVX Code will be removed from the Updates to CVX List grid after all updates are processed.

### Updates to CVX Code 140

| Field Name | Previous Value | New Value | Apply | Ignore |
|---|---|---|---|---|
| CDC Notes | Trivalent code reactivated for 2024/2025 season | Trivalent code reactivated for 2025/2026 season | ○ | ○ |
| Last Updated by CDC | 2024-05-02 | 2025-04-07 | Acknowledge as reviewed | |

☑ I acknowledge that I have reviewed the changes applied to the CVX Code. *

CLOSE CONFIRM

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# Review & Update NDC Details

## CVX Details

Show additional CVX details

| CVX Code | Vaccine Long Name | Consumer Display Name | Status |
|---|---|---|---|
| 140 | Influenza, IIV3, IM, Presrv-free | Influenza, IIV3, p-free | Active |

⚠ Inventory exists for this Sale NDC Number. Brand, Manufacturer and Device cannot be updated.

| Sale NDC Number | Vaccine List Type | CDC Vaccine Type | CDC Description | Manufacturer * |
|---|---|---|---|---|
| 49281-0424-50 | Federal | FLU (M) | FLU; SYR; 10-pack (TIV) | PMC - Aventis Pasteur Inc. |

NDC Group *: Influenza

Ordering Increment: 10

Brand Name *: Fluzone IIV3 PF 6M+

Pkg Length: 0 in.

Pkg Width: 0 in.

Pkg Depth: 0 in.

Doses per Package: 10

Presentation *: 0.5 mL SYR; 10-pack

Device *: 0.5 mL SYR; 10-pack

ICD9

CPT Code: 90656 - Influenza virus vaccine, triva...

Allocated Vaccine - Quantity: 10,000

Allocated Vaccine - Minimum: 10

- [x] Returnable
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- [x] Store in Refrigerator
- [ ] Store in Freezer
- [ ] Store in Ultra-cold Freezer

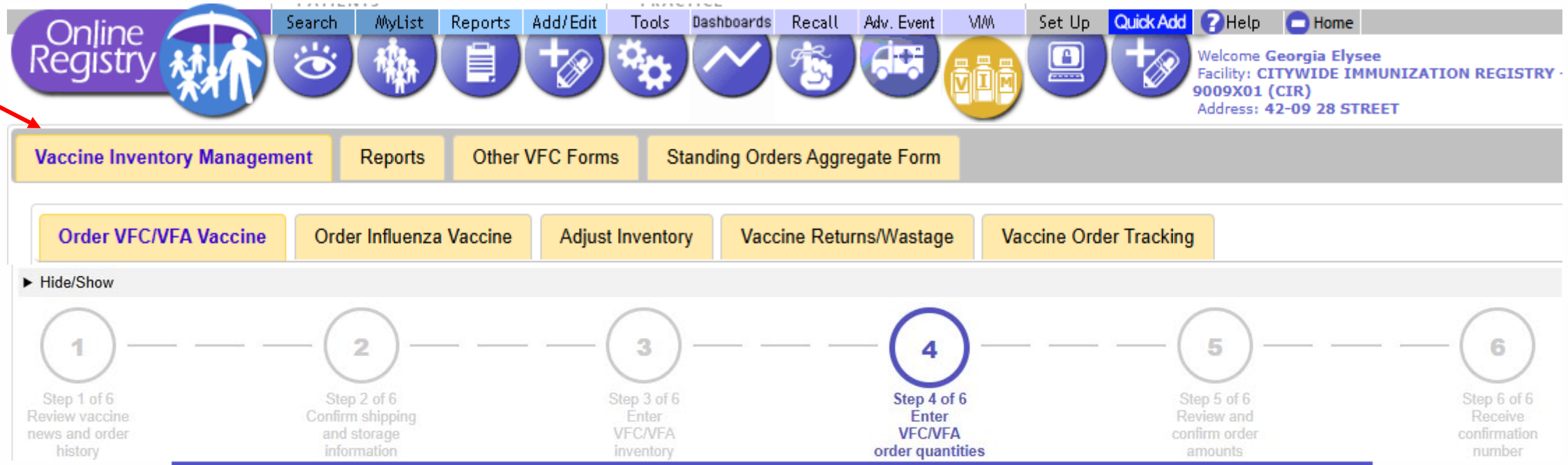
## Pediatric (PED) Ordering Details

| Contract Number | Contract Start Date | Contract End Date | Minimum Bulk | Unit Size | Package Size | Cost |
|---|---|---|---|---|---|---|
| 2202418412 | 12/31/2023 | 6/30/2025 | 100 | 1 | 10 | $15.072 |

- [ ] Direct Ship
- [ ] Override Flag
- [ ] Orderable
- [x] Inventory Current
- [x] Allow Manual Ordering

CANCEL | RESET | BACK | SAVE

# Vaccine product is available in CIR for ordering.




**Request Order Quantities**

**This tool makes ordering recommendations primarily based on your reporting to CIR**

| Vaccine Type / Brand | Doses Per Package | Unit Presentation | Inventory on Hand by Dose | Order Quantity by Dose | Order Subtotal by Dose | Recommended Quantity by Dose | Quantity Evaluation |
|---|---|---|---|---|---|---|---|
| **Influenza** *(Product is under CDC Allocation)* | | | | | | | |
| **Fluzone IIV3 Preservative Free, 6M+** | **10** | **0.5mL single dose syringe, 10 pack** | **0** | **0** | **0** | **0** | **Order Total Okay** |

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# Allocated Vaccine Product Internal Review

Allocated NDC Summary

| Description | Remaining Quantity | Total Ordered Quantity | Total VMU Quantity | Open Orders - Ordered Qty | Open Orders - VMU Qty |
|---|---|---|---|---|---|
| Abrysvo (RSVpreF) \| 00069-0344-01 | 80 | 20 | 20 | 20 | 20 |
| Beyfortus (Nirsevimab) 50 mg \| 49281-0575-15 | 2720 | 380 | 80 | 370 | 80 |
| Beyfortus (Nirsevimab) 100 mg \| 49281-0574-15 | 2300 | 0 | 0 | 0 | 0 |
| COVID, 3mcg/0.3ml (Pfizer), 6m-4y \| 59267-4426-02 | 2700 | 570 | 300 | 480 | 90 |
| COVID, 10mcg/0.3ml (Pfizer), 5-11y \| 59267-4438-02 | 370 | 1860 | 680 | 560 | 210 |
| COVID, 25mcg/0.25mL (Moderna), 6m-11y \| 80777-0291-80 | 1570 | 2370 | 430 | 850 | 310 |
| Flulaval IIV3 PF 6M+ \| 19515-0810-52 | 92990 | 1870 | 780 | 480 | 190 |
| Fluzone IIV3 PF 6M+ \| 49281-0424-50 | 100 | 1920 | 900 | 910 | 330 |
| FLUZONE TRIVALENT NORTHERN HEMISPHERE \| 49281-0425-50 | 4960 | 70 | 40 | 40 | 10 |
| Spikevax \| 80777-0110-93 | 1440 | 1170 | 500 | 120 | 100 |

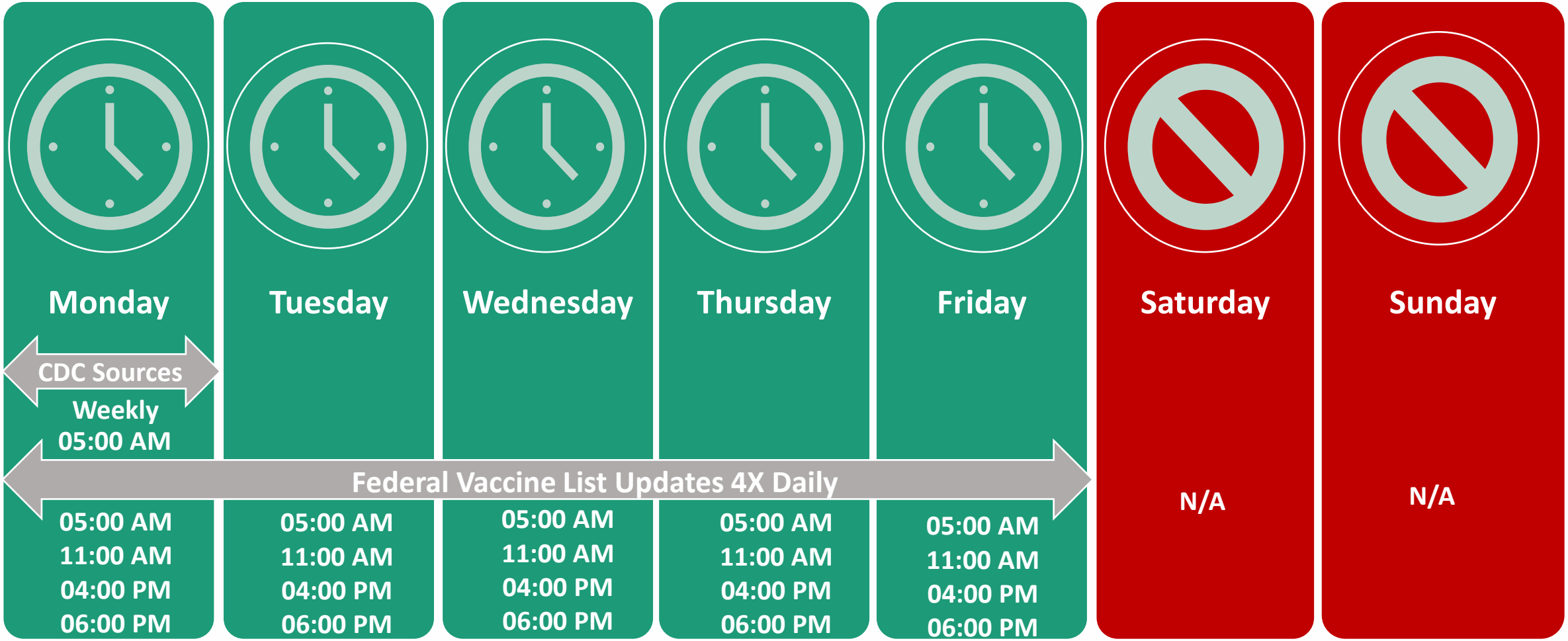
Total Orders: 425 | Expand All | Applied Filters: Order Type: Allocated | Sort: Order Date (Ascending) | Reset Filters & Sorting to Defaults

**VFCCIR - CITYWIDE IMMUNIZATION REGISTRY - 9009X01**

ID: **121978** (1 of 109) | Order Date: **08/27/2024** | Last Modified: **08/31/2024, 12:00:00 PM** | Status: **SHIPPED**

# Results

# Increase Timeliness and Availability of Vaccine Updates

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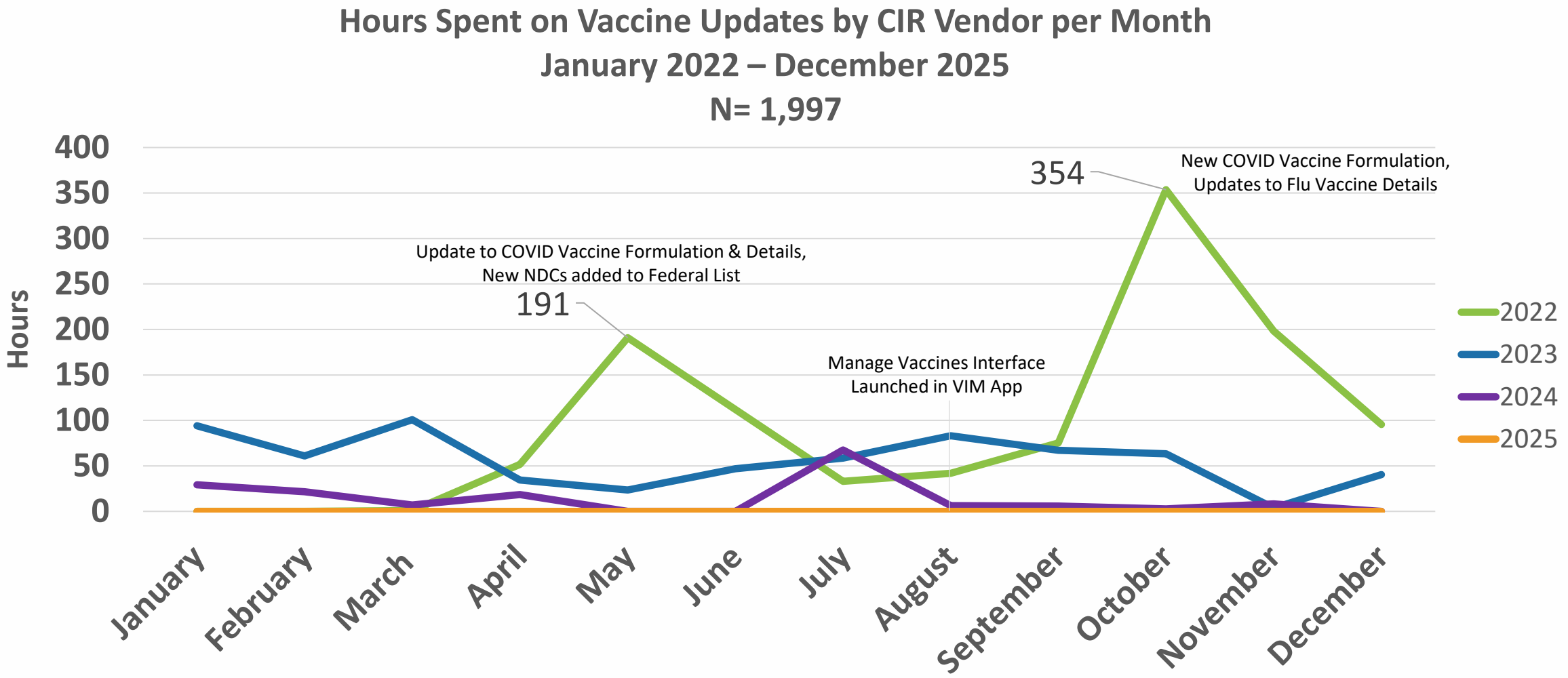
# Increase Efficiency of Vaccine Management

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# Conclusion

# Key Outcomes and Benefits

- Data integration allows us to
  - Automate the collection of vaccine product details
  - Improve consistency across CIR systems, reduce errors and standardize workflows
  - Improve timeliness and availability of vaccine products
- Identify areas for further optimization to improve efficiency
- Accurate and up-to-date data is crucial for efficient vaccine management

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# Next Steps

- Leverage the data obtained through the VTrckS API integration
- Continue to automate and modernize the CIR
- Enhance the VIM App through CDC's VTrckS API grant phase 3 to automatically submit data to CDC
    - Provider Master Data – Completed
    - Inventory Data – Completed
    - Provider Order Data – Completed
    - Vaccine Returns/ Wastage – Completed

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# Resources

- CDC Vaccine Codes sets
  - CVX
    - https://www2.cdc.gov/vaccines/iis/iisstandards/vaccines.asp?rpt=cvx
  - MVX
    - https://www2.cdc.gov/vaccines/iis/iisstandards/vaccines.asp?rpt=mvx
  - NDC Crosswalk Tables
    - https://www2.cdc.gov/vaccines/iis/iisstandards/ndc_crosswalk.asp
  - CPT Mapped to CVX
    - https://www2.cdc.gov/vaccines/iis/iisstandards/vaccines.asp?rpt=cpt

# Acknowledgements


- Melissa Mickle-Hope, NYC
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- Deepa Hymavathi, HLN
- Mike Suralik, HLN


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# Thank you!

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# Thank you to our presenters, and thanks to all of you for joining us!

Please complete a brief evaluation survey.

The next Discovery Session
will be on **February 23, 2026**