A promotional graphic for the AIRA 2021 National Meeting. The background is a photograph of the Portland, Oregon skyline, featuring the prominent orange and blue tower of the Oregon Convention Center and the green steel structure of the Astoria-Megler Bridge over the Willamette River. A large white diamond-shaped graphic with a dotted border is centered over the image. Inside the diamond, the text 'AIRA 2021' is at the top, followed by 'NATIONAL MEETING' in large, bold, blue letters. To the left of the diamond, the dates 'AUG. 3-5, 2021' are written in white. To the right, 'PORTLAND, OREGON' is written in white. The overall scene is captured under an overcast sky.

AUG. 3-5, 2021

AIRA 2021

**NATIONAL
MEETING**

PORTLAND, OREGON

IIS Experiences and Perspectives on the COVID-19 Response: Provider Enrollment

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Vaccine Management Branch Director, ICS Vaccine Section
New York City Department of Health & Mental Hygiene

AIRA National Meeting

Portland, Oregon

August 4, 2021

Overview

- COVID-19 Vaccination Program Enrollment in New York City (NYC)
- Web-based COVID-19 Vaccination Program Enrollment
 - COVID-19 Vaccination Program Application System (VPAS)
- Partnerships
- Outreach Activities
- Next Steps

COVID-19 Vaccination Program Enrollment in New York City

- Began provider enrollment activities in the summer of 2020
- Focused on registering sites in the Citywide Immunization Registry (CIR), NYC's Immunization Information System (IIS)
 - Integrated program enrollment and vaccine ordering into CIR's Online Registry
 - Performed outreach to adult providers that may not have had experience with CIR
 - Pre-pandemic and currently, NYC Health Code and NYS law mandates reporting to CIR of vaccinations for children and adolescents <19 years – adult reporting requires consent (written or oral)
 - In response to pandemic, Governor issued emergency order mandating reporting of all flu and COVID-19 vaccinations within 24 hours, including for adults without consent (no longer in place)
- Currently, >1,870 providers are enrolled in the COVID-19 vaccination program, representing over 2,860 vaccination locations
 - 39% of the vaccination locations are new to the CIR

Web-based Program Enrollment

Web-based Enrollment

- Created a web-based application to capture COVID-19 vaccination program enrollment data
 - Avoided a paper enrollment process based on H1N1 lessons learned
 - Named the application: Vaccination Program Agreement System (VPAS)
 - Served as an electronic version of official CDC enrollment forms
 - Accessed by providers through the CIR Online Registry
 - Enabled us to have control over who had access to program enrollment and ordering using CIR classification criteria (e.g., only hospitals allowed to enroll in earliest phase)
- VPAS features
 - Enabled providers to share access within their facility to enrollment forms using email invitations (required 3 signatures from different people)
 - Directed healthcare networks to complete one Section A and add multiple Section Bs
 - Allowed providers to return to VPAS to update enrollment information
 - Generated automatic approval notifications

Prioritizing Providers

- Provider enrollment/vaccine ordering strategy
 - Hospitals
 - Federally Qualified Health Centers (FQHCs)
 - Pharmacies
 - Urgent Cares
 - Private providers
 - Adult
 - Pediatric

Managing Program Enrollment

- COVID-19 program enrollment was controlled using CIR provider classification designations
- Not all sites immediately had access to the COVID-19 vaccination enrollment section of the CIR Online Registry
- An invitation link is sent after clicking 'Start COVID-19 Vaccination Program Enrollment'

The screenshot displays the CIR Online Registry interface. At the top, there is a navigation bar with various icons and labels: Online Registry, Search, MyList, Reports, Add/Edit, Tools, Recall, Adv. Event, MM/COVID, Set Up, and Adult. Below this is a secondary navigation bar with buttons for Vaccine Inventory Management, COVID-19 Vaccination Program (highlighted with a red arrow), Reports, Other VFC Forms, and Standing Orders Aggr. The main content area includes a welcome message for MELISSA and instructions for starting the COVID-19 Vaccination Program enrollment process. A red arrow points to the 'Start COVID-19 Vaccination Program Enrollment' button, which is circled in red at the bottom of the page.

Welcome MELISSA.

Please click the button below to begin the registration process for the COVID-19 Vaccination Program. Upon clicking the button below, an email will be sent to "lissabkny@yahoo.com", which is associated with your Online Registry login, providing you with access to the COVID-19 Vaccine Provider Agreement System (VPAS).

Once you enter the VPAS, you will be able to complete the required COVID-19 Vaccination Program Provider Agreement.

Section A. Provider Requirements and Legal Agreement
This section must be completed one time per network. You will be able to view and enter data into this section and will be able to add collaborators to complete this section. This section will require electronic signatures of the following individuals:

- Chief Medical Officer
- Chief Executive Officer or Chief Fiduciary Officer

Section B. Provider Profile Information:
One Section B should be completed for each vaccination site associated with your network. You will be able to view and enter data into this section and will be able to add collaborators to complete this section. This section will require the electronic signature of the following individual:

- Medical or pharmacy director or the vaccination site's designated COVID-19 vaccination coordinator

Please note that you will be able to save any incomplete information and Provider Profile at a later time. After completing the Provider Agreement, you will be able to add additional vaccination sites (Section B. Provider Profile Information) as needed.

[Start COVID-19 Vaccination Program Enrollment](#)

Vaccine Program Agreement System (VPAS)

Legal Agreement for CIR Testing Staff Section A Print Share

DASHBOARD > FORMS > LEGAL AGREEMENT FOR CIR TESTING STAFF

Working towards Submission

Once your organization has completed this form, you may submit it for review by the awardee that invited you to participate in this program. If additional information is required from your organization, an email will be sent with details to all collaborators on this form.

[Submit for Review](#)

[Organization Information >](#)

[Responsible Officers >](#)

[Agreement Requirements & Signatures >](#)

[Additional Questions from NYC DOHMH >](#)

CENTERS FOR DISEASE CONTROL AND PREVENTION
COVID-19 Vaccination Program Application M mmickie@health.nyc.gov

Profile for 0101x01 Section B Print Share

DASHBOARD > FORMS > PROFILE FOR 0101X01

Ready to Submit?

Once your organization has completed this form, you may submit it for review by the awardee that invited you to participate in this program. If additional information is required from your organization, an email will be sent with details to all collaborators on this form.

[Submit for Review](#)

[Location Details >](#)

[Location Demographics & Supplemental Information >](#)

[Facility Storage Capabilities >](#)

[Providers Practicing at this Facility >](#)

[Additional Questions from NYC DOHMH >](#)

COVID-19 Vaccination Program Application Approval



COVID-19 Vaccination Program Application

Dear Provider,

Thank you for your recent enrollment of your network and individual facilities in the New York City (NYC) Department of Health and Mental Hygiene (DOHMH) COVID-19 Vaccination Program. Your enrollment application (Section B) has been approved for Facility Code 1555Z01. Your PIN for the COVID-19 Vaccination Program is BAACV9999.

To place your COVID-19 vaccine order, log into the [CIR Online Registry](#) ONE HOUR after receiving this email. Be sure to use the Online Registry User ID that is associated with the CIR Online Registry Facility Code noted on this approved COVID-19 enrollment application. Please order enough vaccine to cover your healthcare personnel and patients when pre-booking COVID-19 vaccine. Partial vaccine shipments will be sent incrementally as vaccine becomes available.

Along with prebooking COVID-19 vaccine your site will need for health care personnel and eligible patients and community members, you will now be asked to submit a partial order for the number of COVID-19 vaccines your facility is able to administer in one week. Going forward, place an order by Monday at 12pm to receive vaccine for the following week. If you did not receive vaccine for the current week, your request will rollover to the next week and you will not need to re-enter an order. After receiving vaccines, you are required to submit and reconcile your first and second dose on-hand COVID-19 vaccine inventory by lot number. Please see the attached guidance for ordering and managing inventory in the VIM.

Even though you may place a COVID-19 vaccine order, vaccine distribution will be based on priority groups put forth by the New York State Department of Health and it may take several weeks before your practice receives vaccine.

In addition, it is required that you report COVID-19 vaccinations to the Citywide Immunization Registry (CIR) within 24 hours of administration. You may report in one of 3 ways:

1. **The preferred option is via direct connection from your electronic health record (EHR).** You can connect your EHR directly to the CIR and report in real time as you are vaccinating. To achieve this, you will need to place a ticket with your EHR vendor to install an immunization interface with the CIR. The EHR vendor will need to reach out to us at cir_interop@health.nyc.gov to set up and test the interface before you can report your vaccinations. You must also complete the [Healthcare Provider Confidentiality Agreement](#) and email it to cir_interop@health.nyc.gov or fax it to (347) 396-2559.
2. Through the [Online Registry \(OR\)](#), the CIR's web-based application. You already obtained access to the [OR](#) in order to sign the COVID-19 Vaccine Provider Agreement and to order COVID-19 vaccine. You can log into the [OR](#) and report COVID-19 vaccinations, one by one.
3. **Via a flat file.** If you have a programmer on site, they can compile a file from your electronic system and send it to us through a secure website. Please email rkabir@health.nyc.gov for more information.

Thank you for your cooperation,

Bureau of Immunization
New York City Department of Health and Mental Hygiene



Partnerships

Internal Partnerships (1)

- Vaccine Command Center
 - Managed by City Hall
 - Coordination of large-scale clinics
 - Deployment of community vaccinators to administer COVID-19 vaccine
 - Worked with local government officials to enroll and train providers
 - Held weekly calls with elected officials
- NYC Health Department Bureau of Equitable Health Systems (BEHS)
 - Matched Medicare provider lists
 - Identified and prioritized providers with a large number of older patients and providers with a large number of unvaccinated patients at high-risk for severe COVID infection
 - Performed outreach to providers to help them enroll

Internal Partnerships (2)

- NYC Health Department, Center for Health Equity and Community Wellness
 - Prioritized Taskforce on Racial Inclusion & Equity (TRIE) neighborhoods
 - Neighborhoods heavily impacted by COVID-19 infection
- NYC Health Department, Integrated Data Team
 - Tracked enrollment and vaccine administration numbers using virtual dashboards

Provider Enrollment Tracking

Summary, by facility type

Hospitals

FQHCs

Pharmacies

Urgent Cares

Vaccination Hubs

Private Providers

Other Provider Types

Summary, by facility type

Facility Type (group)	Facility Type	N, facilities	CDC Deliveries	NYC Deliveries	Delivered Doses	Net transfer, all doses	Administered Doses	Dose 1 Administered	Dose 2 Administered	Single Dose Administered	% Doses Administered	% Single Dose Administered
Hospitals	Hospital, H+H	44									103%	42%
	Hospital, other than H+H	361									99%	56%
Vaccination Hubs	AP	1									88%	87%
	FDNY	1									69%	0%
	NYC Pharmacy	156									132%	495%
	NYPD	1									92%	3%
	VNS	1									105%	
	City Mass Vaccination Site	22									117%	794%
	Federal Site	2										
	Homebound Program	14									83%	80%
Chain Pharmacy	NYS Site	3									92%	158%
	Chain Pharmacy, Costco	5									84%	77%
	Chain Pharmacy, CVS	167									79%	66%
	Chain Pharmacy, Rite Aid	110									82%	78%
	Chain Pharmacy, ShopRite	1									56%	103%
	Chain Pharmacy, Stop & Shop	14									66%	79%
FQHC	Chain Pharmacy, Walgreens	240									90%	86%
	FQHC	174									109%	116%
	FQHC Expansion Site	18									81%	85%
Urgent Care	HRSA (Federally-run FQHC pro..	50									80%	48%
	Urgent Care	126									89%	44%
Private or Other Specialty Provider	Other	152									85%	96%
	Other, LTCF	4									493%	56%
	Private Provider	1,041									78%	48%
Indeopdant Pharmacy	Other Independent Pharmacies	187									92%	79%

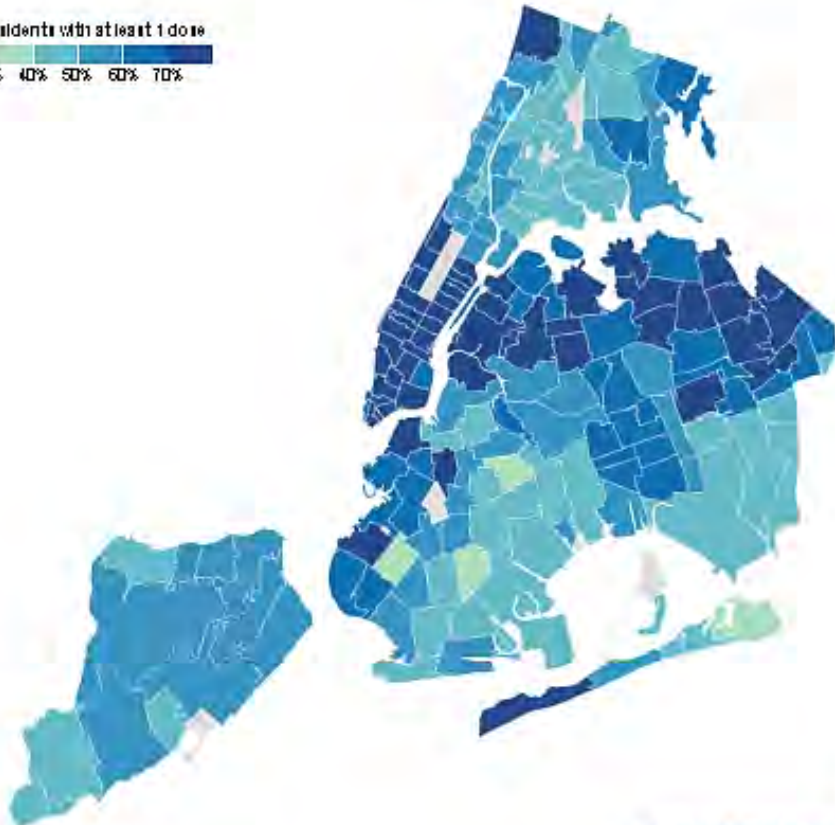
Vaccinations by ZIP Code

These data show the percent of NYC residents who received at least one dose of COVID-19 vaccine, and the percent who are fully vaccinated by, Modified ZIP Code Tabulation Areas (MODZCTAs). MODZCTAs can provide better estimates of population size than ZIP codes because they combine census blocks that have smaller populations.

Map Table

At least 1 dose: All ages Adults
Fully vaccinated: All ages Adults

NYC residents with at least 1 dose
30% 40% 50% 60% 70%



About the data for this map. Get the data.

Vaccine Administration Tracking

- Identify low vaccine coverage ZIP codes
 - Conduct enhanced outreach to providers
 - Provide additional resources
- www1.nyc.gov/site/doh/covid/covid-19-data-vaccines.page#byzip

External Partnerships

- Used external partnerships to enroll and train providers in the COVID-19 vaccination program
 - Hospital Associations
 - FQHCs
 - Hospital networks
 - Community organizations
 - Medical Associations
- Distributed guidance materials and performed multiple webinars
 - Program enrollment
 - Vaccine administration
 - Vaccine storage and handling

New Types of Providers

- Worked with city government and community partners to enroll new types of vaccinators
 - In-home vaccinators
 - Community vaccinators
 - Mobile vaccinators
 - Mass vaccinators
- Held weekly office hours to further educate new providers
 - Vaccine management
 - Clinical operations
 - IIS reporting
 - Vaccine ordering

Provider Outreach Activities

Provider Enrollment Outreach Summary (1)

- Over 40 webinars conducted
 - Provider enrollment
 - Vaccine ordering
 - Vaccine management
 - Clinical operations
- Phone outreach
 - Vaccine ordering support
 - Outreach to unenrolled pediatric providers
 - Vaccine redistribution
- Created two email boxes to capture questions about enrollment and ordering

Provider Enrollment Outreach Summary (2)

- Created an 'Independent Provider Workplan' to track outreach activities being performed
- Administered surveys
 - Readiness to vaccinate
 - Ensured providers had systems in place to begin vaccine administration
 - Barriers to program enrollment and vaccine ordering
- Provider detailing project
 - NYC Health Department staff visiting sites in priority ZIP codes with COVID-19 enrollment information and COVID-19 vaccine educational materials

Challenge: Engaging Pediatric Providers (1)

- Currently, only ~52% of NYC Vaccines for Children (VFC) providers are enrolled in the COVID-19 vaccination program
 - Held COVID-19 vaccine webinars and Q&A sessions for VFC providers
- Encouraged COVID-19 enrollment and sent email blast to all pediatric providers
- Surveyed pediatric providers registered in CIR to assess barriers
 - Conducted targeted outreach based on survey responses

Challenge: Engaging Pediatric Providers (2)

- Contacted sites vaccinating pediatric patients but not enrolled in the COVID-19 vaccination program to answer outstanding questions and help them enroll
- Created a '**Youth Vaccination Task Force**' in order to boost youth vaccinations across the city.
 - City agencies worked together to set priorities and goals of the taskforce

Next Steps

- Focus on ongoing education of pediatric providers to dispel misinformation and continue working with pediatric clinical networks to encourage engagement of youth and families
 - Back to school campaign for COVID-19 vaccine
 - Link to increasing pediatric vaccination with back-to-school immunization requirements
- Monitor number of pediatric providers enrolled and receiving COVID-19 vaccine
 - Increase pediatric care providers receiving COVID-19 vaccine allocation across the city

THANK YOU!

- Georgia Elysee, MPH
- Arianne Ramautar, MPH
- Dr. Amy Metroka
- Dr. Jane Zucker
- Vaccine Operations Center (VOC) Team

IIS Experiences and Perspectives on the COVID-19 Response

Scheduling for Mass Vaccination
Funding Challenges/Sustainability

Agenda

- Vaccination Prioritization
- Central Registration System
- Vaccine Management
- Patient Experience
- Data Quality
- Vaccine Administration Billing
- Funding

Vaccine Prioritization

Healthcare
providers

- Long term care staff

First responders

Age based
criteria

Special
healthcare needs

General
population

College students

School based
vaccination



Vaccine Information and Planning

Novel Coronavirus (COVID-19) > Vaccine Information and Planning



[Click here to find a vaccination site and register](#)



Latest Vaccine News and Resources



Vaccine Dashboard



Vaccine Provider Resources



Frequently Asked Questions



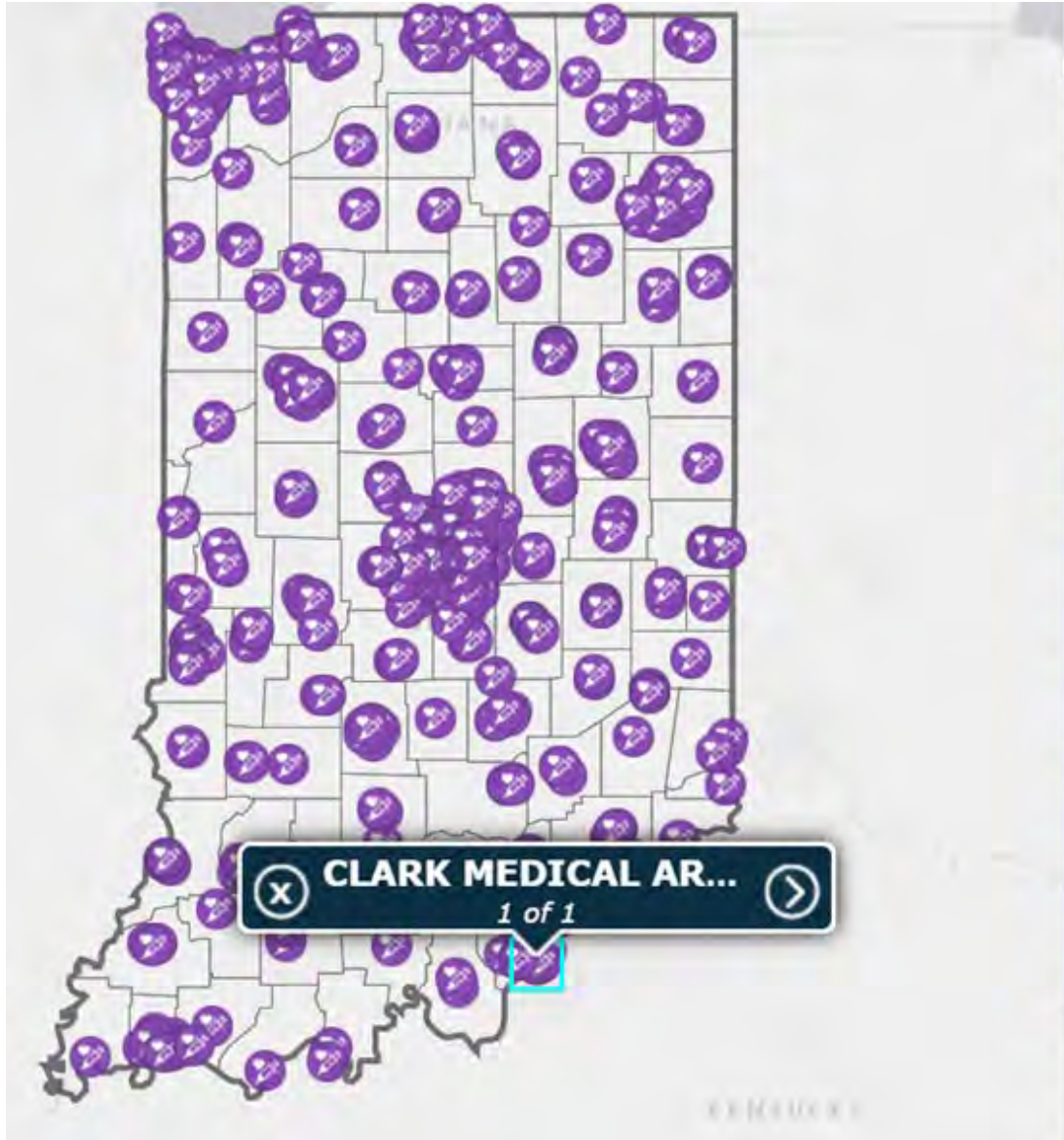
About the Vaccine
[Ask Barb the Bot](#)

www.ourshot.in.gov











Central Registration System



- Registered providers with clinic hours, days of operation and vaccine type
- Interactive map for citizens to see the options by county
- Added a category for high volume vaccination sites
- State and federal partners



List of Vaccine Sites by County

County	Count	Actions
Carroll	3	Dropdown
Cass	3	Dropdown
Clark	10	Dropdown
<ul style="list-style-type: none">  CLARK CO HD COVID VAX  CLARK MEDICAL ARTS BUILDING VAX  Family Health Ctrs. Of Southern Indiana VAX  Kroger Pharmacy - County Road 403  Kroger Pharmacy - E Lewis  Kroger Pharmacy - Jeffersonville Commons  LIFESPRING COM MED SHARON DR VAX  Walmart Pharmacy - Veterans Pkwy VAX  Westmoreland Pharmacy - Jeffersonville VAX  Westmoreland Pharmacy - Sellersburg VAX 		
Clay	3	Dropdown
Clinton	2	Dropdown

Vaccine Management

- Limited number of vaccines
 - Population based allocation
- Phased in approach
 - Hospitals
 - Local Health Departments
 - FQHCs
 - Pharmacies
 - Primary Care
- Appointment schedules built for every location
 - appointments matched vaccine allocation by site
- First dose and second dose appointments



Location Vaccine View

Last Refresh Date:
4/12/2021 9:11:54 AM

Select Location(s)
(All)

Current Inventory

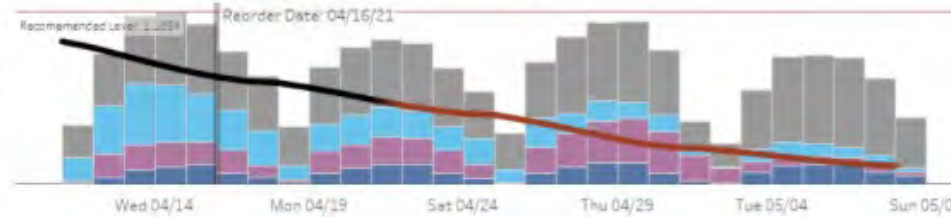
995,568

439,299 - Moderna
320,130 - Pfizer
236,139 - Janssen

Inventory Projection

Projection Start Date
4/11/2021

Projection End Date
5/8/2021



Upcoming Slots - Open Upcoming Slots - Filled 1st Appts Scheduled 2nd Appts - Pfizer Scheduled 2nd Appts - Moderna

Start Date

4/12/2021

End Date

4/12/2021

Showing data for 4/12/2021

Total Appointments

43,163

60.3% of your available appointments are filled



Completed Appointments

146

0.3% of your scheduled appointments are completed



By Hour

2nd Dose Janssen COVID-19 Vaccine 1st Dose Unadministered Janssen COVID-19 Vaccine 1st Dose Pfizer COVID-19 Vaccine

Total Appts



Open Appts (%)

28,472 (39.7%)
18 (75.0%)
162 (78.6%)
663 (46.5%)
2,179 (48.8%)

Completed Appts %

995 (2.3%)
6 (100.0%)
42 (95.5%)
555 (72.8%)
368 (16.1%)



Location Daily Throughput View

Last Refresh Date:
4/12/2021 11:11:54 AM

Location
Multiple Values

Start Date

4/12/2021

End Date

4/26/2021

Showing data from 4/12/2021 to 4/26/2021

- 0%
- < 90%
- < 75%
- >= 90%

County	Loc. #	Location	Locatio..	SIIS ID	VFC PIN	Appointment Date	Total Appt Slots	Original Slots	Overbooked Slots	Overbooked %	Filled Appts	Open Appts	Filled %	1st Appts	2nd Appts - Pfizer	2nd Appts - Moderna	
MARION	SDH1496	Indy Motor Speedway Gate2 JVAX	Public	SIISCLIENT135429	LAB001	4/13/2021	6,006	6,000	6	0.10%	6,004	2	100%	5,995	6	3	●
						4/14/2021	6,004	6,002	2	0.03%	6,004	0	100%	6,002	2	0	●
						4/15/2021	6,001	5,996	5	0.08%	6,001	0	100%	5,999	2	0	●
						4/16/2021	6,003	5,999	4	0.07%	6,003	0	100%	5,999	2	2	●
						4/17/2021	6,000	5,995	5	0.08%	5,996	4	100%	5,991	4	1	●
						4/19/2021	6,005	6,003	2	0.03%	6,003	2	100%	6,002	0	1	●
						4/24/2021	6,099	5,607	492	8.07%	6,096	3	100%	5,605	490	1	●
						4/25/2021	6,001	6,001	0	0.00%	5,984	17	100%	5,981	1	1	●
						4/26/2021	6,000	6,000	0	0.00%	5,999	11	100%	5,985	3	0	●
INDIAN	SDH958	IU METHODIST NEUROSCIENCE BLDG PVAX	Public	SIISCLIENT135109	H49K01	4/12/2021	812	796	16	1.97%	812	0	100%	170	642	0	●
						4/13/2021	411	380	31	7.54%	411	0	100%	12	399	0	●
						4/14/2021	393	362	21	5.48%	393	0	100%	11	372	0	●
						4/15/2021	394	379	6	1.56%	394	0	100%	7	377	0	●



Phone (123-456-7890), first name, last name, or DOB (mm/dd/yyyy)



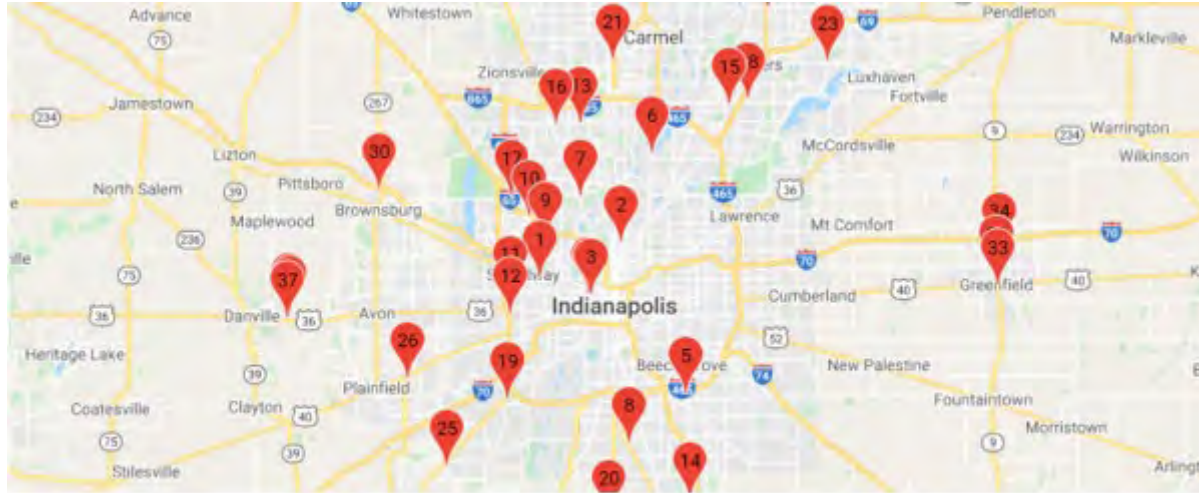
Schedule Appointment

Zotec Smoke Test Vaccine Location

Time	First Name	Last Name	DOB	Service	Appointment Type	Status	
8:50 AM	ZoLocadivya	Test	01/01/2000	Immunizations	COVID VACCIN...	Checked Out	>
10:50 AM	Paul	Test	01/01/1980	Immunizations	COVID VACCIN...	Cancelled	>
12:50 PM	New	Test	08/15/2014	Immunizations	COVID VACCIN...	Checked Out	>
1:20 PM	Test	Test 3 4 2021	01/01/2013	Immunizations	COVID VACCIN...	Rescheduled	>
1:30 PM	Test	Test 3 4 2021	01/01/2013	Immunizations	COVID VACCIN...	Cancelled	>

Patient Experience

- Web-based system so patients could complete all information prior to appointment
- Call center for individuals that did not have access to web services
- Make an appointment, change or cancel an appointment on-line
- Complete all necessary demographic, insurance and medical history information
- Text or email reminders
- V-Safe and VAERS information sent after each appointment



2. **RAPHAEL HLTHCTR INDPLS 34THST MVAX** 4.0 mi

This vaccine site has Moderna only

401 E 34TH ST
INDIANAPOLIS, IN 46205

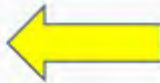
[Schedule an Appointment](#)

3. **IU HEALTH RILEY HOSPITAL PVAX** 5.0 mi

Pfizer only, bring proof of eligibility

575 RILEY HOSPITAL DR
INDIANAPOLIS, IN 46202

[Schedule an Appointment](#)



Attestation/Consent

Indiana COVID-19 Vaccine Program

Certain at-risk Indiana residents are now eligible to get the coronavirus vaccine.

Select the group you belong to:

Healthcare Worker

Healthcare worker who has face-to-face interactions with patients or contact with infectious material.


First Responder

Firefighter, police officer or sheriff's deputy, EMS, reservist, or correctional officer who is regularly called to the scene of an emergency to give medical aid.

Educators

Teachers and staff in pre K-12 schools, childcare centers and Head Start and Early Head Start Programs; licensed childcare providers, including center-based and family care providers, classroom aides; bus drivers; janitors; counselors; administration staff; cafeteria workers; and substitute teachers

People 40 years or older

1/1/1900 

None of these apply to me

Eligibility Attestation

I certify that I am 40 years of age or older (proof of age required) OR an eligible healthcare worker, first responder or educator as described above (proof of eligibility required for all who are eligible based on employment). I am an Indiana resident (proof of residency required at appointment).

[Schedule an Appointment](#)

Consenting Party Name

Emergency Contact Phone

Relationship to Patient

Patient 

This Patient is under the age of 18 and cannot sign consents.

PATIENT CONSENT FOR COVID-19 VACCINATION

[View Consent Text](#)

Accepted

Declined

Notice of Privacy Practices

[View Consent Text](#)

Acknowledged

Declined

Cancel

Save

Data Quality



- New data elements that had to be collected
- Self reported demographics
- IIS connection
- Additional resources
- Daily dashboards

Additional Demographics

What is the patient's preferred language?

- English
- Spanish
- Prefer not to say
- Other

What is the patient's preferred ethnicity?

- Hispanic or Latino/Spanish
- Not Hispanic or Latino
- Prefer not to say

If appropriate, you may optionally select a more specific ethnic subgroup

Puerto Rican

What is the patient's preferred race?

- American Indian or Alaska Native
- Asian
- Black or African American
- Native Hawaiian or Other Pacific Islander
- White
- Multiracial
- Prefer not to say

Race/Ethnicity

- 95.5% of patients reported a race category
- 93.2% of patients reported an ethnicity category

Vaccine Administration Billing



- Hospital EMRs
- Local Health Department capacity
- Centralized process
- Opt out
- Long term solution

Funding

- Sustainability
- Political will
- Public expectations





North Dakota IIS Experiences and Perspectives

Mary Woinarowicz, MA
AIRA 2021

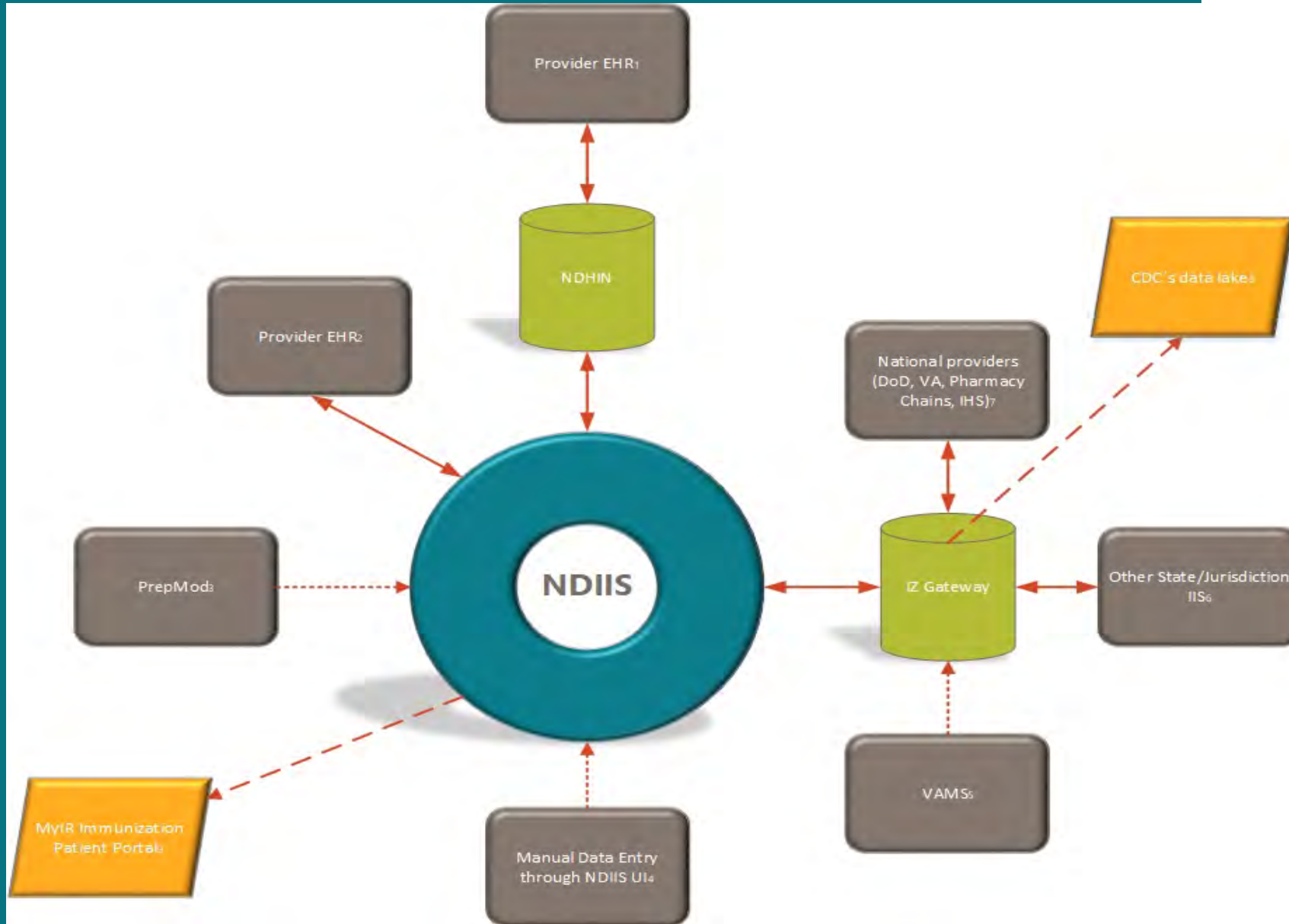
Managing
increased volume



PRE-PANDEMIC VOLUME

- Interface reporting
 - VXU messages received during Q1 2019 = 375,679 (*12,500 per month*)
 - QBP messages received during Q1 2019 = 1,339,710 (*446,237 per month*)
- Provider sites
 - 184 VFC provider sites receiving publicly funded vaccine
 - 484 non-VFC provider sites
- # client records (2019): 1.29 million
- # dose records (2019): 14.5 million

VACCINE ADMINISTRATION



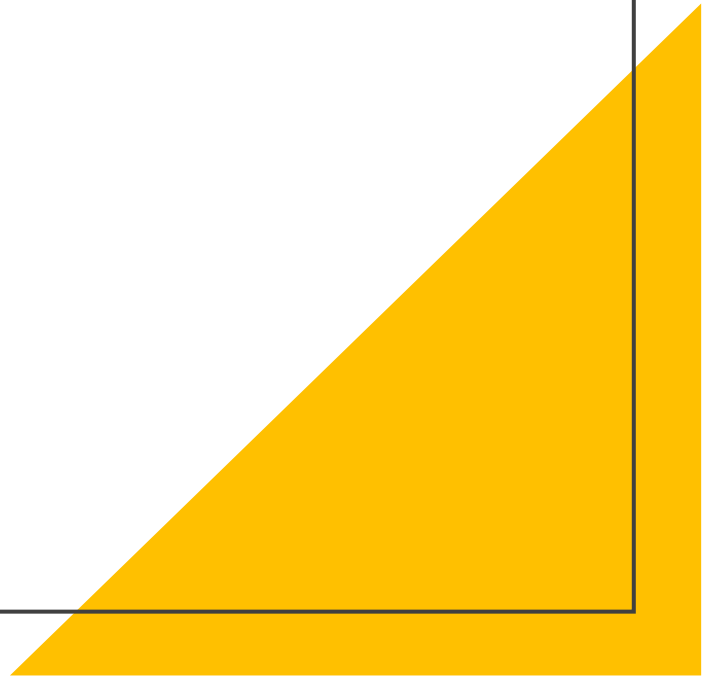
PANDEMIC VACCINE PLANNING

- What we have in place
 - Changed the hosting environment for NDIIS database to virtual servers allowing us to quickly and easily scale up or down as needed
- What we have in progress
 - In 2020, development team was completing end-of-life replacement of messaging engine servers
 - Completed project in October of 2020

PANDEMIC VOLUME

- Interface reporting
 - VXU messages received during Q1 2021 = 732,761 (*244,254 per month*)
95% increase
 - QBP messages received during Q1 2021 = 1,596,912 (*532,304 per month*)
19% increase
- Provider sites
 - 420 COVID enrolled providers receiving publicly funded vaccine
 - 499 non-VFC provider sites
- # client records (2021): 1.39 million **10% increase**
- # dose records (2021): 17 million **14% increase**

Vaccine Redistribution



ROUTINE ORDERING

- VFC-enrolled providers place their vaccine orders directly in the IIS ordering module
 - Must order in package quantity increments
 - Orders are approved by immunization program staff and uploaded to VTrckS
 - Shipping file data is loaded back into the IIS to populate inventory and shipment tracking information for the provider
 - Providers can track orders and shipping information

INFLUENZA ALLOCATIONS

- Providers pre-book the amount of vaccine they think they will need
- When ND receives allocations of vaccine during flu season, determine how many doses of each presentation providers will get based on pre-book and how much vaccine we receive
- Upload an allocation file into the NDIIS that auto-generates the individual provider orders and approves them
- Orders are uploaded to VTrckS and an automated email is triggered to the provider letting the know an order was placed
- Shipping file data is loaded back into the IIS to populate inventory and shipment tracking information for the provider

CHALLENGE WITH COVID VACCINE

- Limited doses allocated each week means providers cannot place their own orders
- Large minimum package quantities means smaller providers could not receive direct shipments of vaccine
- Doses would have to be ordered for storage at and redistribution by the NDDoH warehouse
 - Shipping information would apply to warehouse and not individual provider site
 - Redistributed vaccine would need to be shipped to a lot of different sites across the state in a short amount of time

VACCINE REDISTRIBUTION

- Emergency Preparedness warehouse purchased transport storage units, additional primary storage units, and transport thermometers to be able to safely redistribute large amounts of vaccine
- Almost all COVID vaccine was ordered centrally through the immunization program for delivery to the warehouse
- Warehouse staff mapped out courier routes after getting the list of provider sites being allocated vaccine from the immunization program
 - After route was mapped, notified each individual provider site about upcoming delivery and when to expect vaccine

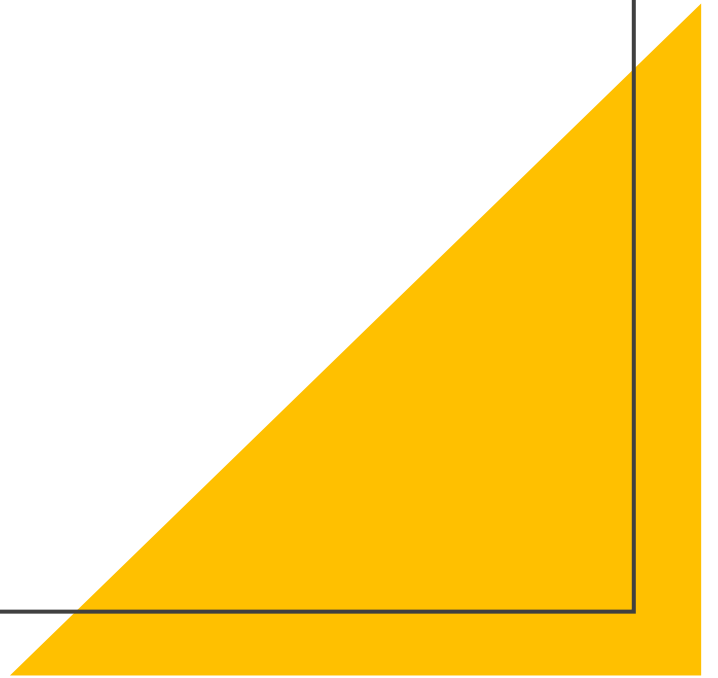
REDISTRIBUTION CONTINUED

- Warehouse entered vaccine deliveries, including lot number, into their tracking system
- Sent list of deliveries with provider ID and lot number back to immunization program
- Initially, immunization program staff manually entered lots into each provider's IIS vaccine inventory and sent email notifications to providers
 - Very time consuming
 - Needed to do this early in the morning or late at night when the inventory management module in the IIS was not under heavy user load

REDISTRIBUTION CONTINUED

- Used our automated allocation ordering process (used for flu vaccine allocations) to generate individual provider orders in the IIS.
 - Allowed providers the ability to see what vaccine they were getting and how many doses were coming
 - Immunization program staff could use the order file generated from the IIS module to create a fake shipping file
- Wrote SAS code to create a file formatted to look like the VTrckS shipping file that would load vaccine into provider inventory in the IIS

Trial Vaccines

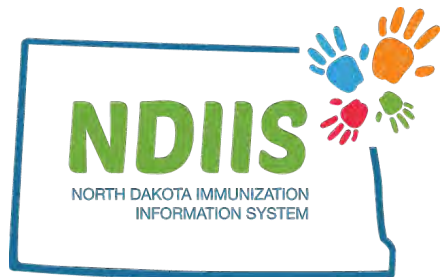


ENTERING TRIAL VACCINES

- ND has one medical research facility that has been participating in the Pfizer vaccine trials
- Early on, when initial vaccine trial data was un-blinded, the research facility had ND residents that they knew received the authorized Pfizer vaccine
- Wanted to document these trial doses in the IIS to show the participants were fully vaccinated

SOLUTION

- If someone is able to provide documentation from their vaccine trial participation that shows:
 - they received an FDA authorized vaccine, not the placebo
 - and, they received the authorized dose of the vaccine
- The provider can enter the dose in the IIS as historical
 - Historical dose designation excludes the dose from being reported to the CDC clearinghouse
 - Allows the trial participant to have their vaccination series included with their vaccination record



THANK YOU



Mary Woinarowicz: mary.woinarowicz@nd.gov

Immunization Program website: <https://www.health.nd.gov/immunize>

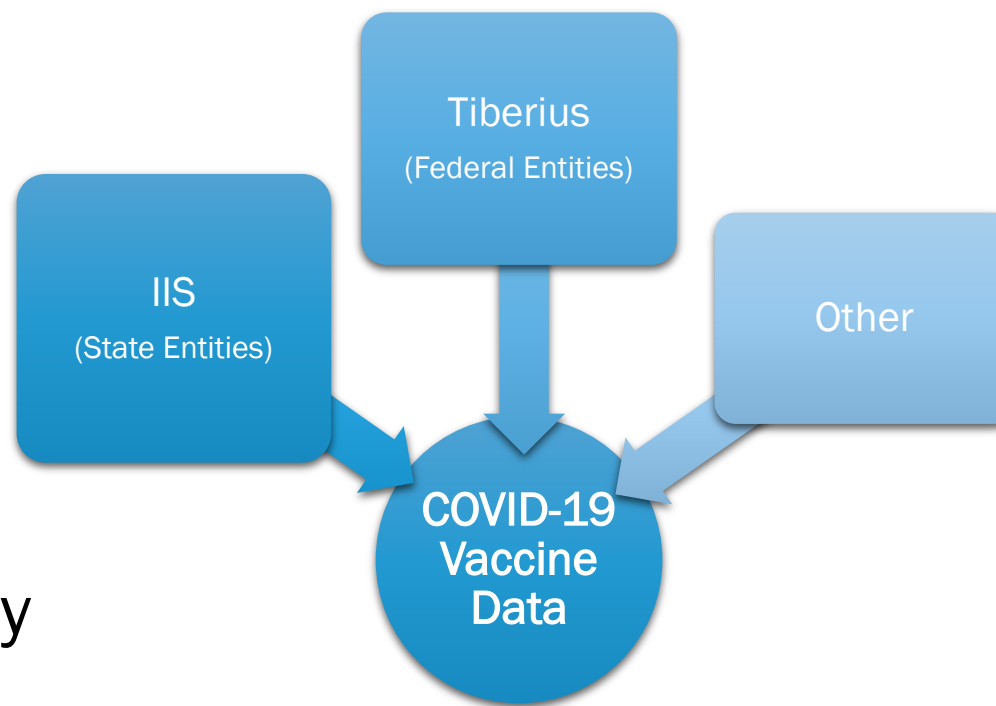
IIS Experiences and Perspectives on the COVID- Response: Data

Kathryn (Katie) Cruz
NMSIIS Manager



COVID-19 Data Challenges

- ❑ Multiple sources for data reporting
- ❑ Lack of transparency for federal data
- ❑ Urgent data requests
- ❑ Increased scrutiny



CDC Clearinghouse Reporting



- Daily manual uploads to CDC Clearinghouse
- Upcoming edit/delete functionality
- Potential for API Connection
- Onboarding providers to VaccineFinder

Managing Data Requests

- Daily Report/Public dashboard
- Ad-hoc requests/IPRAs
- Demand for immediate changes
- Very large data sets
- Leadership not familiar with data constraints
- Lack of existing infrastructure



Data Quality: Balancing Immediate and Accurate

CHALLENGES

- Disconnect in Communication
- Immediate Data Requests
- Increased Scrutiny
- Coverage Goals

SOLUTIONS

- Developing Data Team
- Anticipating Requests
- Establishing data request process

Public Reporting




- Internal vs external
- Increase of scrutiny and demand
- Helps identify potential errors in data
- Constant requests for changes in data presentation
- Difficulty in presenting data visually
- JIC – public communication on data

Total Doses Delivered to NM				
Jurisdiction + Pharmacy	2,088,355			
Local	338,050			
Doses Administered in NM with State Doses (NMSIIS)		Total Doses Administered in NM with Federal Doses (Tiberius)		Total Doses Administered in NM
Cumulative Doses Administered	1964903	Cumulative Doses Administered	290,463	Cumulative Doses Administered
Doses Administered in Last 7 Days	14900			
Average Daily Doses Administered in Last 7 Days	2128.6			
New Mexicans Vaccinated with State Doses (16 and over, includes Out of State - NMSIIS)		New Mexicans Vaccinated with Federal Doses and Out of State Doses (Tiberius)		New Mexicans Vaccinated from Either
	Count	Status	Count	Status
At least one vaccine	994709	At least one vaccine	184,225	At least one vaccine
Fully vaccinated	902581	Fully vaccinated	145,122	Fully vaccinated
Percentage of New Mexicans Receiving Vaccine from State (16 and over - NMSIIS, excludes individuals living out of state)		Percentage of New Mexicans Receiving Vaccine from Federal		Percentage of New Mexicans Receiving

Internal Reporting Example

New Mexicans Vaccinated with State Doses (12 to 17, includes Out of State - NMSIIS)		New Mexicans Vaccinated with Federal Doses (12 to 17, excludes Out of State - NMSIIS)		New Mexicans Vaccinated from Either		
	Count	Status	Count	Status		
At least one vaccine	62765	At least one vaccine	15,637	At least one vaccine		
Fully vaccinated	50232	Fully vaccinated	12,363	Fully vaccinated		
Percentage of New Mexicans Receiving Vaccine from State (12 to 17 - NMSIIS, excludes individuals living out of state)		Percentage of New Mexicans Receiving Vaccine from State Doses (12 to 17 - NMSIIS, excludes individuals living out of state)		Percentage of New Mexicans Receiving Vaccine from Federal Source (12 to 17)		
Receiving at least one vaccine	37.6%	Receiving at least one vaccine	9.4%	Receiving at least one vaccine		
Fully vaccinated	30.1%	Fully vaccinated	7.4%	Fully vaccinated		
Vaccinations in New Mexico by Race/Ethnicity Group (NMSIIS, excludes doses to individuals living out of state)						
Ethnicity Group	Cumulative Doses (all phases)	Population Total (12 and over)	Doses per 100 Population	People receiving at least one vaccine	Percent of Population Receiving at Least Vaccine	Fully vaccinated
American Indian or Alaska Native	183180	157,872	116.0	100180	63.5%	
Hispanic or Pacific Islander	51958	32,752	158.6	27863	85.1%	



New Mexico Department of Health
COVID-19 Vaccine Dashboard

The New Mexico Department of Health (NMDOH) is leading the state of New Mexico's COVID-19 vaccination. We've led this planning in close collaboration with other state agencies, public, private and tribal partners throughout the state.

[Learn More](#)

Interested in "Phase-Specific Vaccine Data"? If you are interested in information on New Mexico's progress through the phase-based distribution plan, please click [here](#).

COVID-19 Vaccine Dashboard

Last Updated: 7/27/2021

Select Language ▼

Overall Totals

<p>Total Doses Administered*</p> <h1 style="margin: 0;">2,255,366</h1>	<p>Percentage Of New Mexicans 18+ With At Least One Dose**</p> <h1 style="margin: 0;">72.5%</h1>
<p>Total Doses Received*</p> <h1 style="margin: 0;">2,426,405</h1>	<p>Number Of New Mexicans 18+ With At Least One Dose</p> <h1 style="margin: 0;">1,178,934</h1>

External Reporting Example

New Mexico State Data

Doses Administered In The Last 7 Days

14,900


<p>Total Doses Administered</p> <h1 style="margin: 0;">1,964,903</h1>	<p>Percentage Of New Mexicans With At Least One Dose</p> <h1 style="margin: 0;">61.2%</h1>
<p>Total Doses Received*</p> <h1 style="margin: 0;">2,088,355</h1>	<p>Number Of New Mexicans With At Least One Dose</p> <h1 style="margin: 0;">994,709</h1>

Federal Data***

<p>Total Doses Administered*</p> <h1 style="margin: 0;">290,463</h1>	<p>Percentage Of New Mexicans With At Least One Dose**</p> <h1 style="margin: 0;">11.3%</h1>
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thank you!

Kathryn (Katie) Cruz
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The background of the image is a cityscape of Portland, Oregon, featuring a river, a bridge, and several skyscrapers. A large white diamond-shaped graphic with a dotted border is centered over the image. Inside the diamond, the text 'AIRA 2021' is at the top, followed by 'NATIONAL MEETING' in large, bold, blue letters. To the left of the diamond, the text 'AUG. 3-5, 2021' is displayed. To the right of the diamond, the text 'PORTLAND, OREGON' is displayed. The sky is overcast and grey.

AUG. 3-5, 2021

AIRA 2021

**NATIONAL
MEETING**

PORTLAND, OREGON