

Using the New Jersey Immunization Registry (NJIS) to Improve Immunization Rates



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Overview


- Immunization Registry Introduction
- NJIS
 - Vaccine Forecasting Tool
 - Reminder Recall Module
- Public Health / Data Quality Initiatives
- NJIS Training Opportunities




Introduction

- Immunization Information Systems (IIS's)?
 - Repository of immunization records collected from multiple health care facilities (entered manually or via EHR interface)
- Who uses the Registry in New Jersey ?
 - Vaccine for Children Providers
 - Pediatric, Family Health Care and Internal Medicine Providers
 - Health Care Specialist (Allergist, OBGYN, Audiologist...)
 - Institutions (Hospitals, Prisons, Schools, Pharmacies...)
 - Health Insurance Companies (HEDIS reporting)
- Point of Care Benefits
 - Avoid under and over-vaccinated populations
 - Rapid outbreak response and Public Health Initiatives
 - Improve treatment rates for vaccine-preventable diseases


NJIS Highlights



- Vaccine Forecasting Tool
- Reminder Recall Module



Scheduler Details




IMMUNIZATION PATIENT INFORMATION FOLLOW-UP PATIENT RECORD DATA


Scheduler Details Immunizations Series Summary Medical History Message

Scheduler Details


Series	Recommendation	Chart 1	Chart 2	Chart 3	Chart 4	Chart 5	Chart 6	Chart 7
MM II	COMPLETE	MM II (1/1/2018)	MM II (1/1/2018)	MM II (1/1/2018)				
DTaP	DUE IN FUTURE (16/04/2018 - 10x)	DTaP (10/1/2018)	DTaP (10/1/2018)	DTaP (10/1/2018)	DTaP (10/1/2018)	DTaP (10/1/2018)	DTaP (10/1/2018)	DTaP (10/1/2018)
IPV	COMPLETE	IPV (1/1/2018)	IPV (1/1/2018)	IPV (1/1/2018)	IPV (1/1/2018)			
MM I	COMPLETE	MM I (1/1/2018)	MM I (1/1/2018)	MM I (1/1/2018)	MM I (1/1/2018)			
MM II	COMPLETE	MM II (1/1/2018)	MM II (1/1/2018)	MM II (1/1/2018)	MM II (1/1/2018)			
MM III	COMPLETE	MM III (1/1/2018)	MM III (1/1/2018)	MM III (1/1/2018)	MM III (1/1/2018)			
MM IV	COMPLETE	MM IV (1/1/2018)	MM IV (1/1/2018)	MM IV (1/1/2018)	MM IV (1/1/2018)			
MM V	COMPLETE	MM V (1/1/2018)	MM V (1/1/2018)	MM V (1/1/2018)	MM V (1/1/2018)			
MM VI	COMPLETE	MM VI (1/1/2018)	MM VI (1/1/2018)	MM VI (1/1/2018)	MM VI (1/1/2018)			
MM VII	COMPLETE	MM VII (1/1/2018)	MM VII (1/1/2018)	MM VII (1/1/2018)	MM VII (1/1/2018)			
MM VIII	COMPLETE	MM VIII (1/1/2018)	MM VIII (1/1/2018)	MM VIII (1/1/2018)	MM VIII (1/1/2018)			
MM IX	COMPLETE	MM IX (1/1/2018)	MM IX (1/1/2018)	MM IX (1/1/2018)	MM IX (1/1/2018)			
MM X	COMPLETE	MM X (1/1/2018)	MM X (1/1/2018)	MM X (1/1/2018)	MM X (1/1/2018)			
MM XI	COMPLETE	MM XI (1/1/2018)	MM XI (1/1/2018)	MM XI (1/1/2018)	MM XI (1/1/2018)			
MM XII	COMPLETE	MM XII (1/1/2018)	MM XII (1/1/2018)	MM XII (1/1/2018)	MM XII (1/1/2018)			
MM XIII	COMPLETE	MM XIII (1/1/2018)	MM XIII (1/1/2018)	MM XIII (1/1/2018)	MM XIII (1/1/2018)			
MM XIV	COMPLETE	MM XIV (1/1/2018)	MM XIV (1/1/2018)	MM XIV (1/1/2018)	MM XIV (1/1/2018)			
MM XV	COMPLETE	MM XV (1/1/2018)	MM XV (1/1/2018)	MM XV (1/1/2018)	MM XV (1/1/2018)			
MM XVI	COMPLETE	MM XVI (1/1/2018)	MM XVI (1/1/2018)	MM XVI (1/1/2018)	MM XVI (1/1/2018)			
MM XVII	COMPLETE	MM XVII (1/1/2018)	MM XVII (1/1/2018)	MM XVII (1/1/2018)	MM XVII (1/1/2018)			
MM XVIII	COMPLETE	MM XVIII (1/1/2018)	MM XVIII (1/1/2018)	MM XVIII (1/1/2018)	MM XVIII (1/1/2018)			
MM XIX	COMPLETE	MM XIX (1/1/2018)	MM XIX (1/1/2018)	MM XIX (1/1/2018)	MM XIX (1/1/2018)			
MM XX	COMPLETE	MM XX (1/1/2018)	MM XX (1/1/2018)	MM XX (1/1/2018)	MM XX (1/1/2018)			
MM XXI	COMPLETE	MM XXI (1/1/2018)	MM XXI (1/1/2018)	MM XXI (1/1/2018)	MM XXI (1/1/2018)			
MM XXII	COMPLETE	MM XXII (1/1/2018)	MM XXII (1/1/2018)	MM XXII (1/1/2018)	MM XXII (1/1/2018)			
MM XXIII	COMPLETE	MM XXIII (1/1/2018)	MM XXIII (1/1/2018)	MM XXIII (1/1/2018)	MM XXIII (1/1/2018)			
MM XXIV	COMPLETE	MM XXIV (1/1/2018)	MM XXIV (1/1/2018)	MM XXIV (1/1/2018)	MM XXIV (1/1/2018)			
MM XXV	COMPLETE	MM XXV (1/1/2018)	MM XXV (1/1/2018)	MM XXV (1/1/2018)	MM XXV (1/1/2018)			
MM XXVI	COMPLETE	MM XXVI (1/1/2018)	MM XXVI (1/1/2018)	MM XXVI (1/1/2018)	MM XXVI (1/1/2018)			
MM XXVII	COMPLETE	MM XXVII (1/1/2018)	MM XXVII (1/1/2018)	MM XXVII (1/1/2018)	MM XXVII (1/1/2018)			
MM XXVIII	COMPLETE	MM XXVIII (1/1/2018)	MM XXVIII (1/1/2018)	MM XXVIII (1/1/2018)	MM XXVIII (1/1/2018)			
MM XXIX	COMPLETE	MM XXIX (1/1/2018)	MM XXIX (1/1/2018)	MM XXIX (1/1/2018)	MM XXIX (1/1/2018)			
MM XXX	COMPLETE	MM XXX (1/1/2018)	MM XXX (1/1/2018)	MM XXX (1/1/2018)	MM XXX (1/1/2018)			



Scheduler Detail

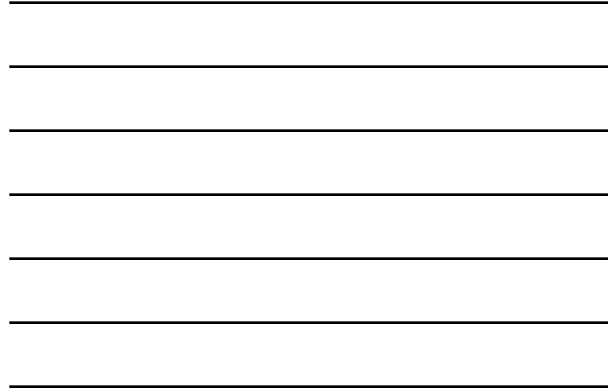


- Can be found in the patient's record
- Enhanced forecasting tool to help avoid missed opportunities and improve immunization rates
- Child, adolescent and adult vaccine forecasting



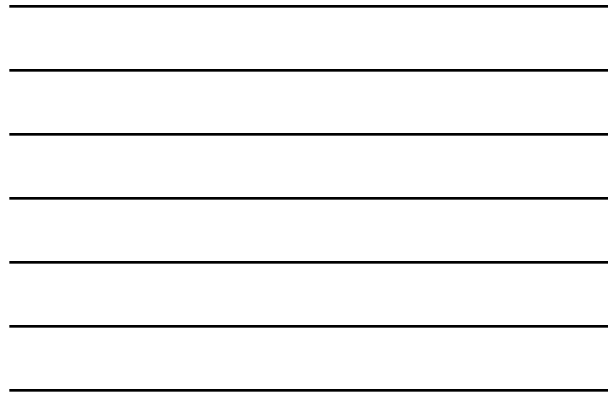
Where to Find Scheduler Detail

The screenshot shows the 'Patient Personal / Critical Information' form. The 'Patient Medical Facility' is set to 'UNKNOWN'. Fields include RegistryID, Last Name, First Name, Middle Name, Suffix, Status (ACTIVE), Reason, DOB (01/01/2018), Age (1 yr(s) 3 month(s)), Gender (MALE), VFC Eligibility (Medicaid, Medicaid Managed Care, and NJ FamilyCare), Insurance Type (NJ FAMILYCARE(PLAN A)), and Insurance Name (HORIZON NJ HEALTH). There are checkboxes for 'Reminder / Recall' and 'High Risk Disease Complications'. At the bottom, there are tabs for IMMUNIZATION, PATIENT INFORMATION, FOLLOW UP, PATIENT FORMS, and E/BI. The 'Scheduler Details' sub-tab is highlighted with a yellow arrow.



Scheduler Detail Without Patient's Vaccine Data Added

The screenshot shows the 'Scheduler Details' table. The table has columns for Series, Recommendation, Dose 1, Dose 2, Dose 3, Dose 4, Dose 5, Dose 6, and Dose 7. The 'Recommendation' column contains the following entries: Hep B, DTaP, Hib, Polio, MMR, Var, Difter, Pneumo, Flu, Hep A, Rotavirus, Meninge, MMR, and Meninge B. Each entry has a corresponding 'DUE NOW' date in the 'Dose 1' column.



Adding Vaccine History to Populate Scheduler Detail

The screenshot shows the 'Immunizations' section of the Scheduler Details. It includes a 'Scheduler Details' dropdown menu and an 'Immunizations' dropdown menu. At the bottom right, there are three buttons: '+ New', '+ Refusal', and '+ Add Other Medical Facility History'. A yellow arrow points to the '+ Add Other Medical Facility History' button.



Adding Vaccine History to Populate Scheduler Detail



Date	MM/DD/YYYY	MM/DD/YYYY	MM/DD/YYYY	MM/DD/YYYY	MM/DD/YYYY
Series	Dose	Dose	Dose	Dose	Dose
DTP	Vaccine Id	Vaccine Id	Vaccine Id	Vaccine Id	Vaccine Id
HPV	Vaccine Id	Vaccine Id	Vaccine Id	Vaccine Id	Vaccine Id
Hep A	Vaccine Id	Vaccine Id	Vaccine Id	Vaccine Id	Vaccine Id
Hep B	Vaccine Id	Vaccine Id	Vaccine Id	Vaccine Id	Vaccine Id
Flu	Vaccine Id	Vaccine Id	Vaccine Id	Vaccine Id	Vaccine Id
Hib	Vaccine Id	Vaccine Id	Vaccine Id	Vaccine Id	Vaccine Id
MMR	Vaccine Id	Vaccine Id	Vaccine Id	Vaccine Id	Vaccine Id
Meningo	Vaccine Id	Vaccine Id	Vaccine Id	Vaccine Id	Vaccine Id
Pneumo	Vaccine Id	Vaccine Id	Vaccine Id	Vaccine Id	Vaccine Id
Polio	Vaccine Id	Vaccine Id	Vaccine Id	Vaccine Id	Vaccine Id
Rotavirus	Vaccine Id	Vaccine Id	Vaccine Id	Vaccine Id	Vaccine Id
Var	Vaccine Id	Vaccine Id	Vaccine Id	Vaccine Id	Vaccine Id



Scheduler Details



IMMUNIZATION	PATIENT INFORMATION	FOLLOW UP	PATIENT FORMS	EHDI
Scheduler Details				
Var	COMPLETE	Var (03/22 /2013)	Var (01/26 /2015)	
Zoster	DUE IN FUTURE (01/08/2061 - Zoster recombinant)			
Pneumo	HIGH RISK		PCV16 (09/16 /2011)	PCV16 (01/09 /2012) PCV13 (07/23 /2013)
Flu	DUE NOW (07/01/2018 - Flu)	Flu (11/09 /2012)	Flu (01/11 /2013)	Flu (10/28 /2014) Flu (10/20 /2016)
Hep A	COMPLETE	Hep A (03/22 /2013)	Hep A (01/26 /2015)	
Rotavirus	TOO OLD			
Meningo	DUE IN FUTURE (01/08/2022 - Meningo)			
HPV	DUE IN FUTURE (01/08/2022 - HPV)			



NJHS Highlights



- Vaccine Forecasting Tool
- **Reminder Recall Module**



Reminder Recall



- Immunization Reminder and Recall Interventions are cost-effective methods whereby children in need of vaccination are identified and contacted to come to the physician's office.

The American Academy of Pediatrics recommends combining reminder and recall systems as a powerful method for ensuring optimal vaccination rates. https://www.aap.org/en-us/Documents/immunization_reminderrecall.pdf

US Government's Community Guide recommends client reminder and recall interventions based on strong evidence of effectiveness in improving vaccination rates in children, adolescents and adults. <https://www.thecommunityguide.org/findings/vaccination-programs-client-reminder-and-recall-systems>



Reminder Recall Outreach Plan



- Reminders for upcoming vaccines or past due vaccines
- Focus campaign on single vaccine or a group of vaccines
- Target particular patient population
- Plan how often to run Reminders/Recalls
- Patient outreach (phone calls or mail campaign)



Creating Reminder Recall in 3 Steps



STEP ONE
Creating the reminder/recall job

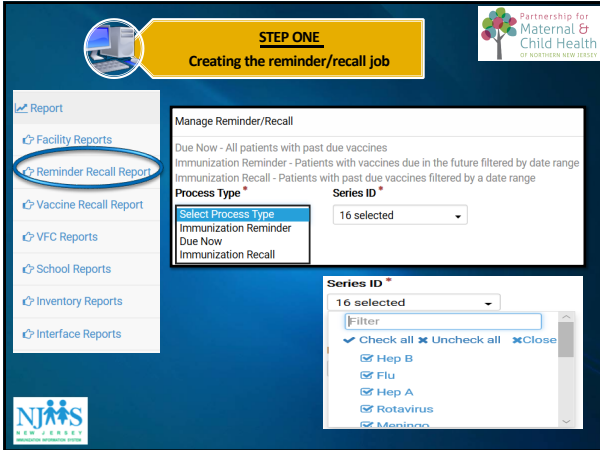


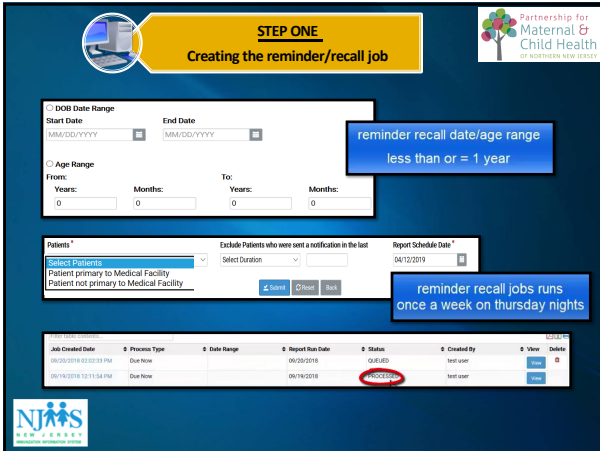
STEP TWO
Previewing and editing the patient list

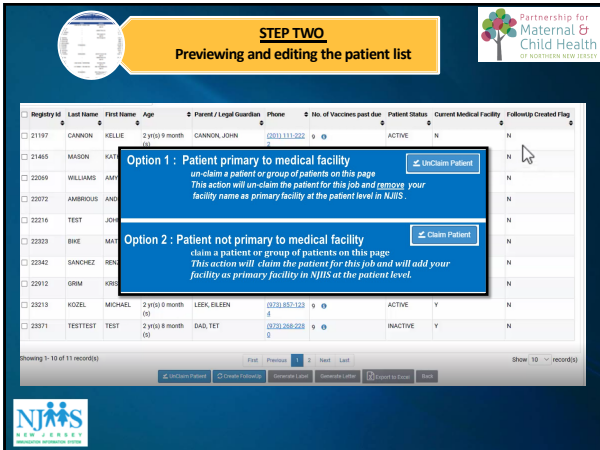


STEP THREE
Choosing your output










STEP THREE
Choosing your output






OUTPUT	PATIENT STATUS	CURRENT MEDICAL FACILITY	FOLLOW UP CREATED
REPORT	ACTIVE & INACTIVE	Y & N	Y & N
LETTER/LABELS	ACTIVE ONLY	Y ONLY	Y ONLY

Export to Excel

Generate Label Generate Letter

STEP THREE
Choosing your output

Generate Letter

Customize your letter message content!

From: NJMS TRAINING TESTING SITE
 60 PARK PLACE STE TWO
 NEWARK, NJ
 07102-1011

Date: 10/22/2018 21465
 RAJESH MALHOTRA 09/01/2016
 Age: 2 y/mo 5 w/m/d

Dear Parent or Guardian,

URGENT For office to schedule a visit
 For Infant Return to health care per your records.



Communication	Due Date
CI	08/01/2018
Step 6	01/01/2017
CIAB	01/01/2016
CIAB	04/01/2017
CIAB 10/15	01/01/2016
Immunization Catchup 13-valent	01/01/2018
Step 8	03/21/2018

If you have any questions or if you think our records may not be up-to-date, please let us know.
 Thank You!

3 Step Reminder Recall Tutorial is available on
 NJMS' Enrollment & Training page
<https://njms.nj.gov/core/web/index.html#/training>

Guardians of Data Quality



Presented By:
Alak Patra
 NJMS Data Coordinator
 Vaccine Preventable Disease Program



Data Quality Points to Consider

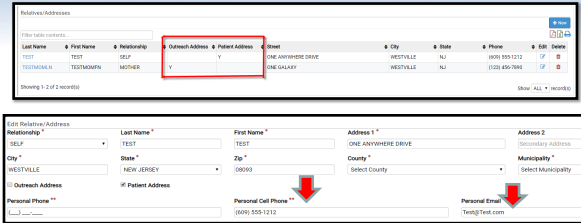


- Patient Address, Phone number and Email address
 - ❖ Outreach Address
- Reporting time for administered doses
- Updated Patient Roster
 - ❖ Active/Inactive Patient
 - ❖ Consent Policy
 - ❖ Claim/Unclaim Patient- Interface providers needs to manually claim and un-claim

Patient Address, Phone number, Email address & Outreach Address

Reports you can use:

- ❖ Patient Master Listing
- ❖ Added Patient Report

Reporting time for Administered Doses

- ✓ Report all Historical and New Doses.
- ✓ Report doses to NJIIS as soon as possible (Providers administering vaccine to kids <7 Years - Need to report within 30 days of administration)

Reports you can Run

- ❖ Added Vaccination report
- ❖ Administered Summary
- Under Inventory report




Updated Patient Roster

Active/Inactive Patient

Consent Policy

Claim/Unclaim Patient

Registry ID *	Last Name *
42902009	TEST
Status *	Reason
ACTIVE	Select Reason

Search	1 Date	1 Sex	1 Age
01/1/2017	F	18118F	187

Claim Patient

Do you want to make yourself Primary Medical Facility for the Patient?

Yes No

Patient Master Listing Report



✓ Added Patient Report

✓ Interface File Details Report

✓ Unclaim Patient Report

✓ Added Patient Report

✓ R/R report for mass claim or unclaim patient






NJIIS Training Opportunities

- NJIIS Fundamentals Training
- NJIIS School Webinar Training
- NJIIS Interface Webinar Trainings
- Quarterly NJIIS workshops for interfacing facilities
- Advanced Training Webinars TBD

*Training dates and times are posted on the NJIIS site.
All new users are required to complete enrollment forms,
and sign confidentiality agreements*





NJHS Trainers

Partnership for Maternal and Child Health of Northern New Jersey

Joann Jablonski
Essex, Morris, Union and Warren

Leanne Loewenthal
Bergen, Hudson, Passaic and Sussex

Central Jersey Family Health Consortium
Patricia Kaiser
Hunterdon, Mercer, Middlesex, Monmouth, Ocean and Somerset

Southern New Jersey Perinatal Cooperative
Barbara Alston
Atlantic, Burlington, Camden, Cape May, Cumberland, Gloucester and Salem





Questions?... Go to: njihs.nj.gov



Submit a Request:

- Your issue is logged and tracked in our system.
- If you include detailed information about your issue, NJHS staff can research your issue before contacting you.
- Questions are automatically routed to the appropriate NJHS staff for fastest response time.





Thank You!
