



RSV Prevention in North Dakota



Health & Human Services



Planning

- The ND HHS Immunization Unit started meeting with key stakeholders (health systems, hospitals, IHS, insurers, Medicaid, local public health) planning for the implementation of nirsevimab in May of 2023

Planning

Nirsevimab Planning Checklist

North Dakota Immunization Information System (NDIIS)/Documentation

- ☐ Update and/or complete NDIIS provider agreement, if needed.
- ☐ Request NDIIS user access for individuals at your facility who may administer nirsevimab monoclonal antibody or need to look up immunization/administration records.
- ☐ Verify that your electronic medical record (EMR) is set up to document nirsevimab doses, and how it will electronically send doses to NDIIS. If not, establish a process for reporting doses to the NDIIS. CVX codes: [IIS](#) | [Code Sets](#) | [CVX](#) | [Vaccines](#) | [CDC](#)

Product Storage and Handling

- ☐ Plan for purchasing nirsevimab for privately insured children. According to the manufacturer, nirsevimab will cost about \$495 per dose on the private market.
- ☐ Ensure storage units are working well, have adequate storage space for prefilled syringes (on top of influenza, COVID-19 and other vaccines) and temperatures are being monitored 24 hours a day using a digital data logger. nirsevimab is stored in the refrigerator at 2-8°C.
- ☐ Ensure staff review [CDC's vaccine storage and handling toolkit](#).

Facility Protocol and Education

- ☐ Ensure that your facility is enrolled in the [VFC Program](#). Nirsevimab will be included in the VFC Program. Your facility should establish a process to document VFC eligibility in the EMR/patient record for each nirsevimab dose administered.
- ☐ Establish a process to make birthing hospital and clinic staff aware of nirsevimab availability and recommendations. Please note that IM dosage varies by weight, 50mg (0.5mL) if <5kg, 100mg (1mL) if ≥5kg, 200 mg (2 x 100 mg/1mL) for high risk entering 2nd RSV season.
- ☐ Plan how to communicate nirsevimab availability, priority groups and safety/efficacy to patients.
- ☐ Ensure education on documentation needs (EMR, electronic birth certificate, NDIIS) are provided to staff.
- ☐ Update billing processes for private insurance and VFC-eligible children, as needed.
 - ☐ [BCBS of ND inpatient vaccination billing policy](#)

■ Nirsevimab Planning Checklist for providers (distributed after U.S. FDA approval)

- ☐ NDIIS/EMR documentation
- ☐ Storage and handling
- ☐ Provider education
- ☐ Protocols/standing orders



Program Implementation

- Health advisory to providers regarding influenza, COVID-19 and RSV
- Respiratory season news release
- Webinars for providers about influenza, COVID-19 and RSV
- Algorithms and FAQs
- Weekly office hours for providers to receive updates, ask questions, and share what they were doing at their facilities

IIS Implementation

- Used IIS rotavirus doses administered data to estimate nirsevimab need by provider and sent that to each site
- Added new CVX codes to IIS code set
 - able to add prior to RSV mAB being added CDSi
- Added RSV mAB to IIS ordering module
- Updated IIS vaccine deduplication to allow two identical doses of RSV mAB to be added to a single client record
 - all doses of RSV mAB bypass the automated deduplication and are dropped into the queue for manual review by IIS team members

IIS – Vital Records

- IIS receives hepatitis B and HBIG doses from Vital Records as part of the newborn birth record
- Worked with Vital Records to allow birthing hospitals to enter nirsevimab doses with newborn record
- Challenges:
 - IIS does not allow newborn records with generic first names (i.e., Baby Boy, Girl A, etc.); do not receive newborn records or birthing hospital doses via HL7 if baby does not have their given first name at the time the message is sent
 - Vital Records captures minimal dose administration details; rely on lot number from Vital Records file matched to IIS provider inventory to identify product type administered; if lot number not in IIS provider inventory, dose doesn't get added

Managing Nirsevimab Supply

- Once CDC ordering was paused in mid-October, North Dakota did not receive any additional allocations of VFC nirsevimab
 - North Dakota providers had already ordered their “fair share” of VFC availability
- Used historical rotavirus doses administered by provider and county from the IIS to estimate need and equitably redistributed doses
 - Used courier system that was established during COVID-19 vaccine response
- Used the IIS to monitor doses administered and inventory on hand weekly
- VFC nirsevimab locator on our website

VFC Nirsevimab locator

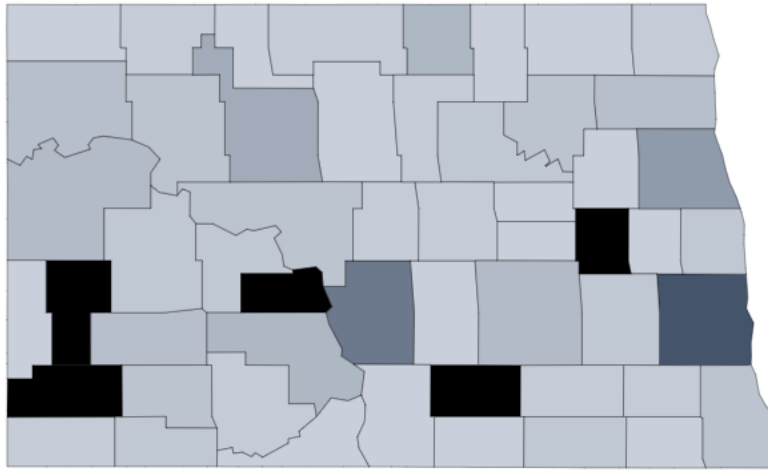
North Dakota VFC & VFA Program Enrolled Provider Sites

194

Total Number of Enrolled Providers

Hover over the map to view the total number of VFC enrolled provider sites in each county.

VFC/VFA Enrolled Provider Sites by County



Filters

County
All

City
All

Zip Code
All

Facility Type
All

Program
All

VFC RSV nirsevimab available
All

Selected filters will update all the visuals on the page.

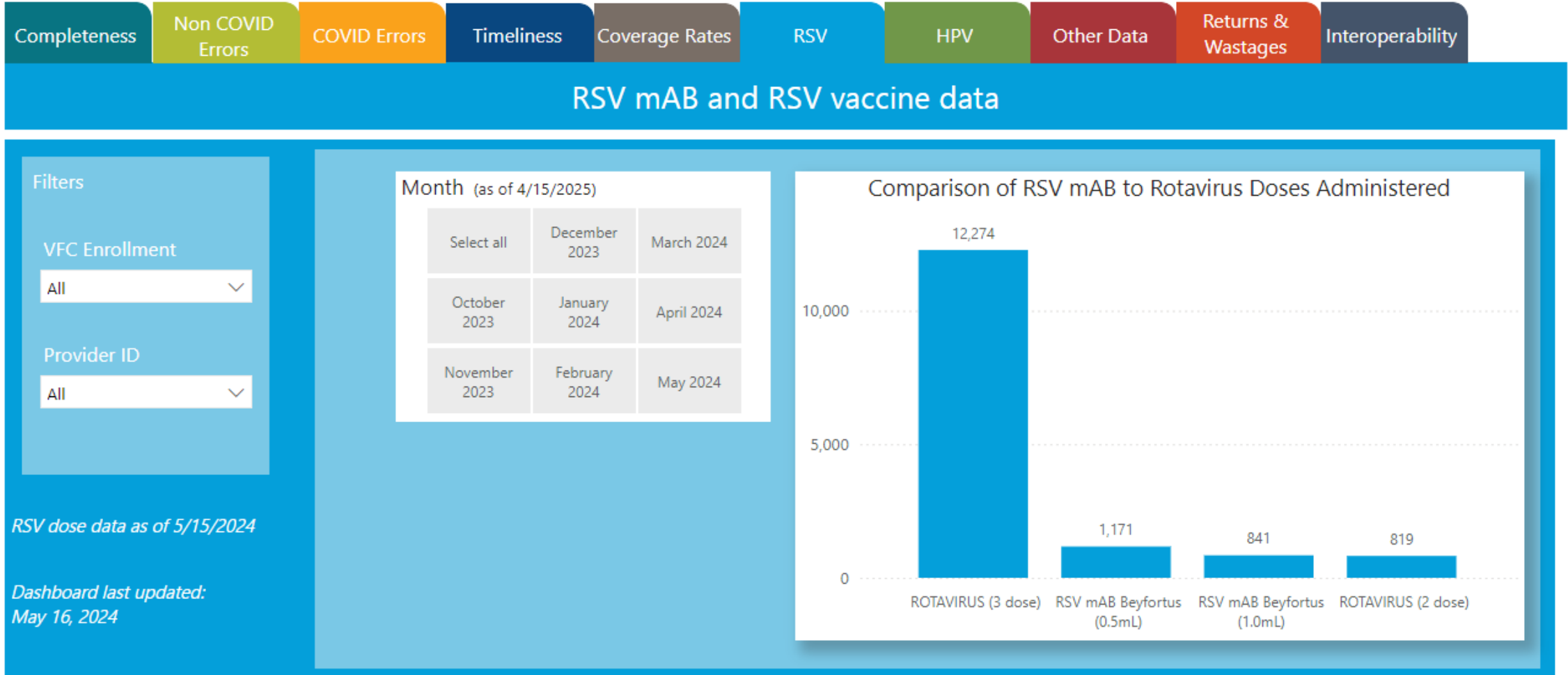
Counties without any VFC or VFA enrolled provider sites will appear blacked-out on the county map.

Nirsevimab is a RSV immunization for children aged 19 months and younger. Availability reflects only VFC doses in VFC enrolled provider inventory.

Provider Name	Facility Type	Address	City	County	Facility Phone Number	VFC Enrolled	VFA Enrolled
Altru Clinic Pediatrics	Private Practice (e.g., family practice, pediatric, primary care)	1380 S Columbia Rd	Grand Forks	Grand Forks	701-780-6110	Yes	No
Altru Devils Lake	Private Practice (e.g., family practice, pediatric, primary care)	1001 7th St NE	Devils Lake	Ramsey	701-662-2157	Yes	Yes
Altru Family Medicine Center	Private Practice (e.g., family practice, pediatric, primary care)	1380 S Columbia Road	Grand Forks	Grand Forks	701-780-6915	Yes	Yes
Altru Family Medicine Residency	Private Practice (e.g., family practice, pediatric, primary care)	725 Hamline St	Grand Forks	Grand Forks	701-780-6825	Yes	Yes
Altru Health System	Birthing Hospital or Birthing Center	1200 S Columbia Rd	Grand Forks	Grand Forks	701-780-5151	Yes	Yes
Altru Professional Center Family Medicine South	Private Practice (e.g., family practice, pediatric, primary care)	4440 S Washington St	Grand Forks	Grand Forks	701-732-7600	Yes	Yes
Amend Healthcare	Private Practice (e.g., family practice, pediatric, primary care)	3989 4th St E, Suite 2	West Fargo	Cass	701-532-1215	Yes	Yes
Anne Carlsen Center	Other	701 3rd St NW	Jamestown	Stutsman	701-351-0600	Yes	No
Avera Clinic of Ellendale	Rural Health Clinic	240 Main St	Ellendale	Dickey	701-349-3666	Yes	Yes
Bismarck Burleigh	Public Health	407 S 26th St	Bismarck	Burleigh	701-355-1540	Yes	Yes

- Used IIS VFC inventory on hand data to populate nirsevimab availability on public-facing VFC provider locator
- Updated weekly October 2023-March 2024

RSV Nirsevimab Uptake Monitoring



Using IIS Data to Manage Supply

Funding Source

Select all

Private

Public

VFC Eligibility

Select all

No Insurance

American Indian

Not Eligible

Medicaid

Other State
Eligible

Total RSV mAB 0.5 mL Doses
Administered

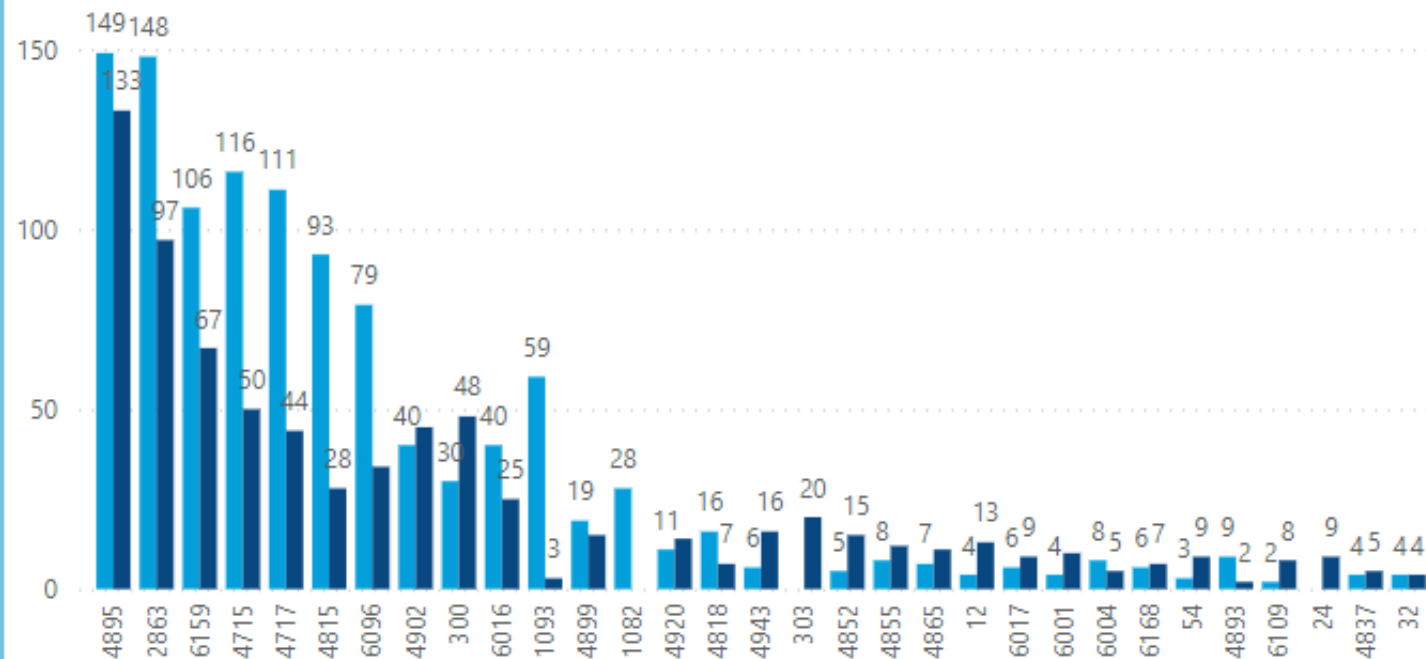
1,171

Total RSV mAB 1.0 mL Doses
Administered

841

RSV mAB Doses Administered by Provider

vaccine ● RSV mAB Beyfortus (0.5mL) ● RSV mAB Beyfortus (1.0mL)



Using IIS Data to Manage Supply

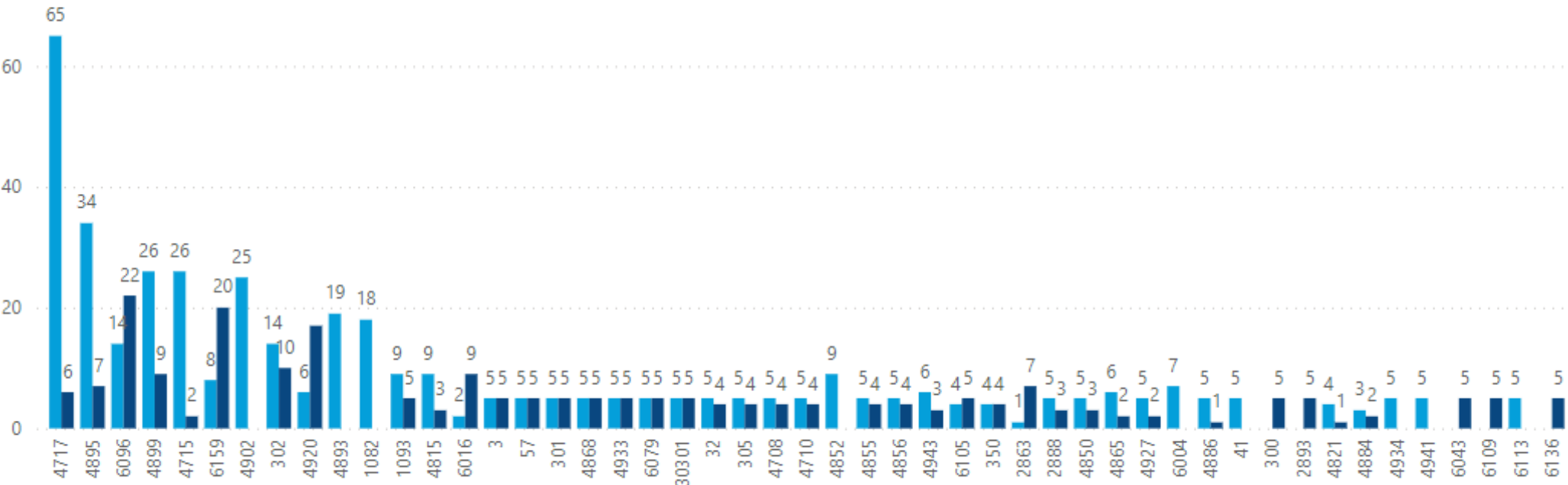
Total VFC RSV mAB doses on hand

0.5 mL doses on hand
433

1.0 mL doses on hand
246

RSV mAB VFC Inventory by Provider

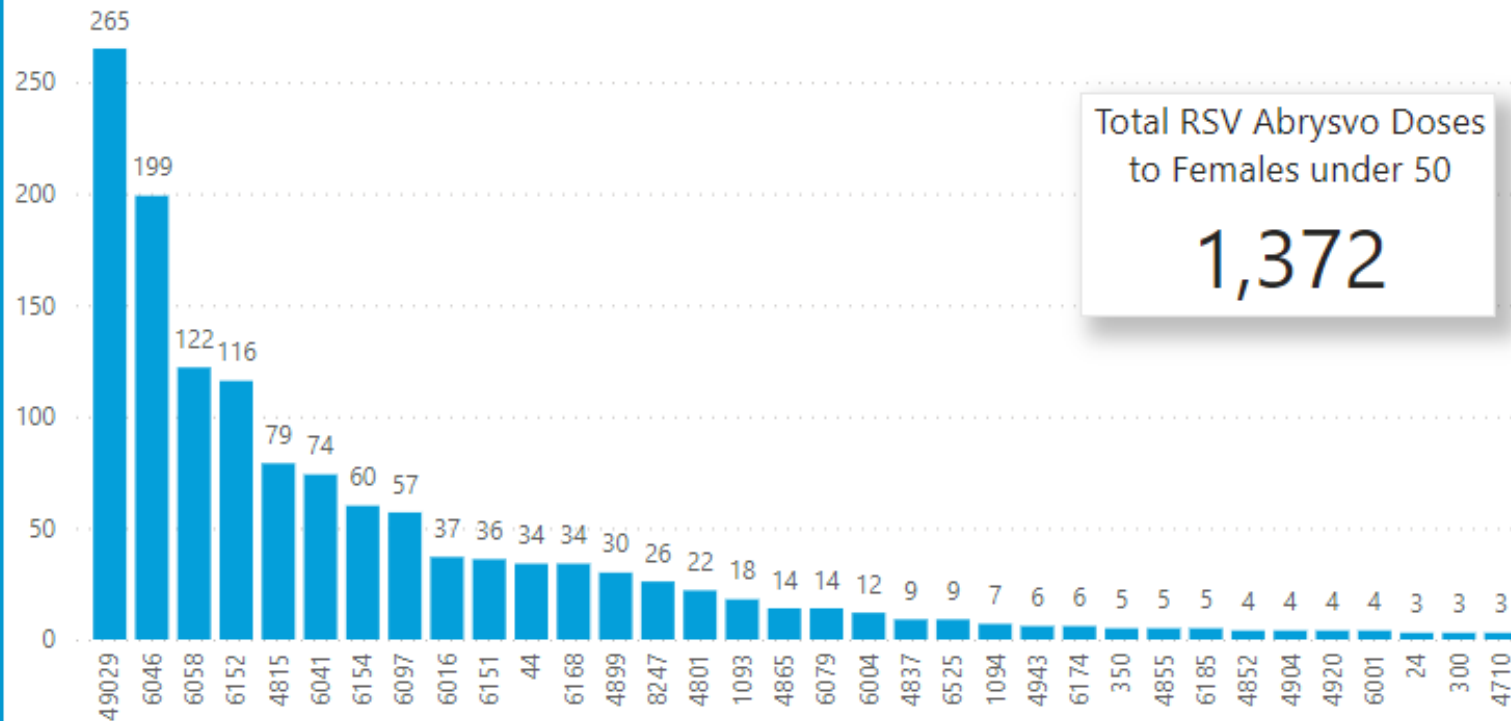
vaccine ● RSV mAB Beyfortus (0.5mL) ● RSV mAB Beyfortus (1.0mL)



Maternal RSV Vaccine

- ND HHS encouraged the use of maternal RSV vaccine to minimize impact of nirsevimab shortage
- Monitored usage using IIS data to inform nirsevimab need by health system/clinic
- Sample prescription for pharmacy administration

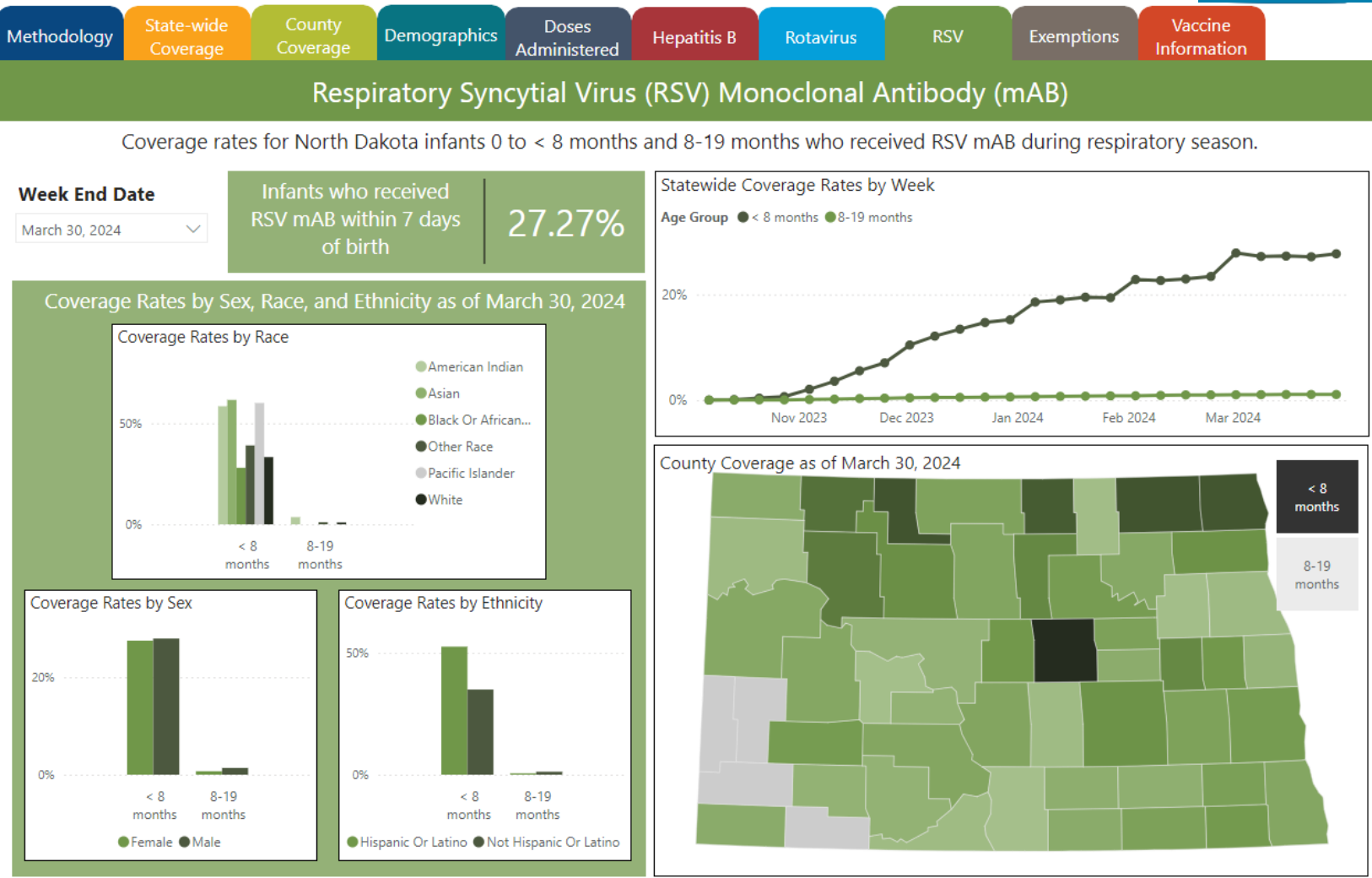
RSV Abrysvo Doses Administered to Females under 50 years of age



RSV Administration Monitoring

- RSV administration and data entry error monitoring added to monthly VFC provider error report
 - use IIS data to monitor:
 - doses of RSV mAB with public funding source and not eligible VFC
 - doses of RSV mAB given to children older than 19 months
 - doses of RSV Abrysvo vaccine given to males under 60 years
 - doses of RSV Arexvy vaccine given to anyone under 60 years
 - VFC program staff follow up with providers for any doses that show up on error report

RSV Nirsevimab Coverage



- Assessed state-wide and county-level coverage for infants
- Published coverage data on public-facing infant dashboard
- Updated weekly October 2023 through March 2024

Challenges/Lessons Learned

- Due to North Dakota not receiving additional allocations of VFC vaccine, had to physically redistribute vaccine amongst providers
- Difficult to communicate with the public about nirsevimab when in short supply
- Some providers holding doses for “highest risk”
- Little visibility into private nirsevimab supply
- IIS data is critical to managing supplies during shortages
- Communicate with providers often and in different formats (i.e., emails, webinars, office hours)
- Birthing hospitals resistant to offering nirsevimab due to bundled reimbursement

Planning for Next Season



- Developing a tip sheet to assist providers in estimating nirsevimab need for next season
- Education of birthing hospitals regarding nirsevimab and participation in VFC Program
 - 100% of birthing hospitals enrolled in VFC in ND
- Adding reminder/recall functionality to IIS for nirsevimab

ND HHS Team

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<https://www.hhs.nd.gov/health/RSV>