

Minnesota Immunization Information Connection (MIIC)

Kristen Ehresmann, RN, MPH
Director, Infectious Disease Epidemiology, Prevention, and Control Division

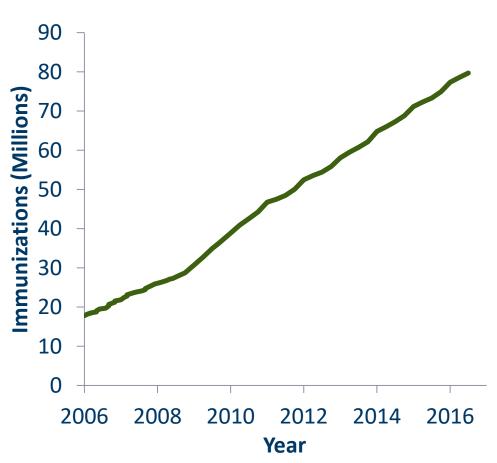
Outline

- MIIC Data
- MIIC Data Use
 - Health Equity
 - Maternal Vaccination
 - Health Care Personnel Influenza Vaccination
 - Child Care Reporting
 - Outbreak Response

3 MIIC Data

Immunization Data





~80,000,000

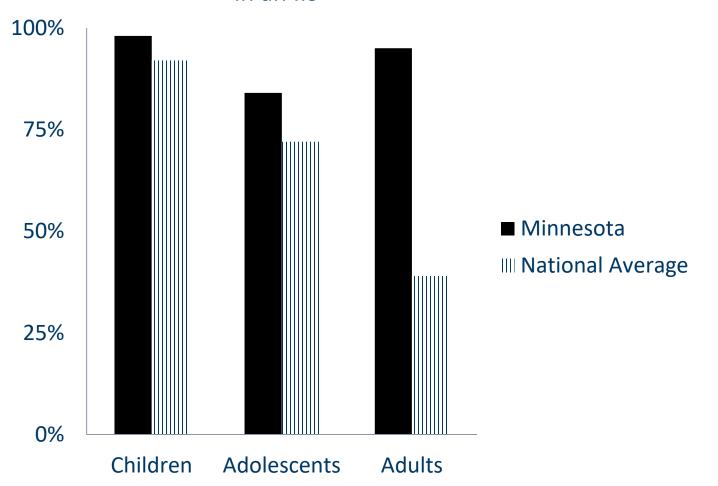
immunizations

20,000+

added *daily* during flu season

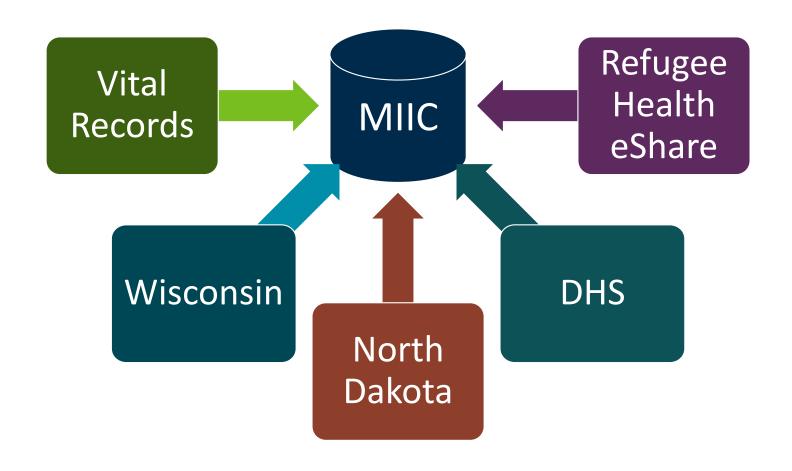
Nation-Leading Client Participation



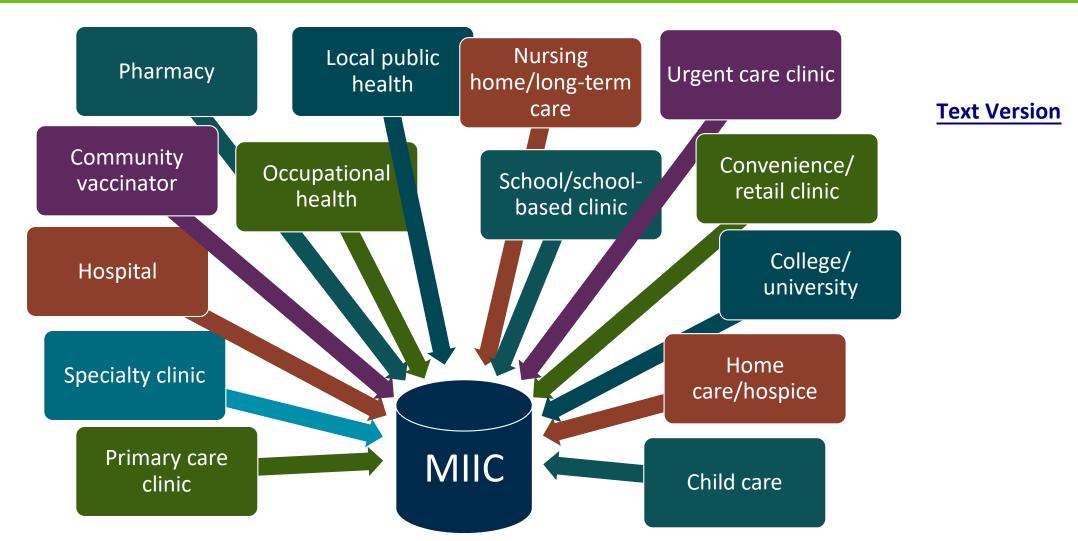


- 95% of Minnesota adults have immunizations in MIIC
- National average is 39%

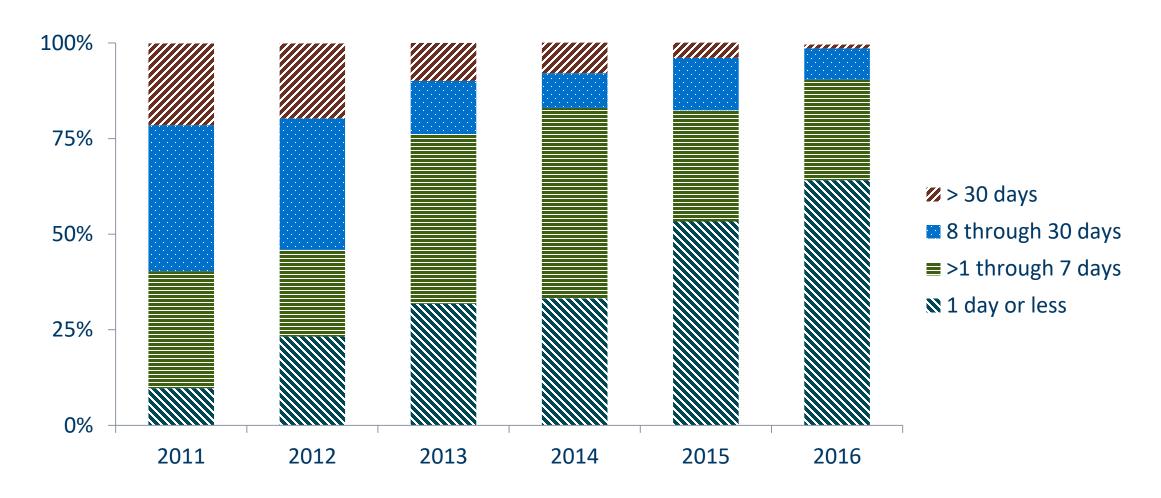
MIIC Data Sources: Data Connections



MIIC Data Sources: User Groups



Data Submission Time Since Immunization



Premier Immunization Registry

- One of six IIS nationally recognized for high data quality and effective data use
- Others include MI, ND, NYC, OR, and WI

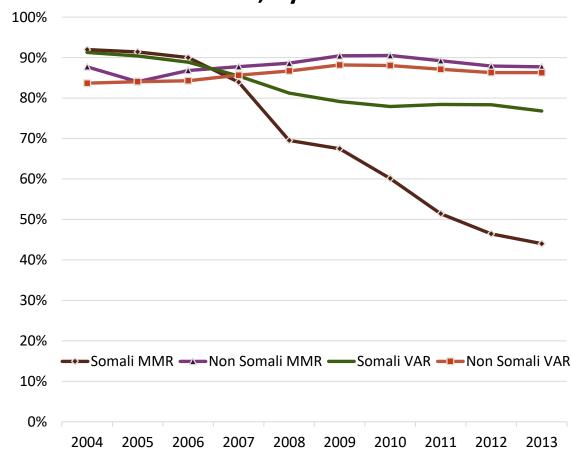


MIIC Data Use

Health Equity

- Matched birth certificate and MIIC data to assess immunization rates by race/ethnicity and maternal/paternal birth country
- Use results to:
 - Build provider/partner relationships
 - Inform education and outreach
 - Prepare for/respond to outbreaks





Maternal Vaccination

- Matched mother's birth certificate and MIIC data to assess compliance with Tdap and influenza recs
 - Little data available nationally
- Assessed vaccination rates by demographic factors and prenatal care quality
- Use results to inform outreach and future research

	Tdap Unadjusted RR	95%CI	Flu Unadjusted RR	95%CI
Black vs White	0.9483*	0.9325, 0.9644	0.8319*	0.8128, 0.8515
Native American vs White	0.8034*	0.7682, 0.8403	0.8358*	0.7928, 0.8811
South Asian vs White	1.0483	1.0088, 1.0894	1.0239	0.9734, 1.0770
Asian vs White	1.0216	1.0013, 1.0423	1.0103	0.9845, 1.0368
Hispanic vs Non- Hispanic	0.9468*	0.9251, 0.9691	0.9794	0.9518, 1.0079

^{*}Statistically significant at p<0.0001.

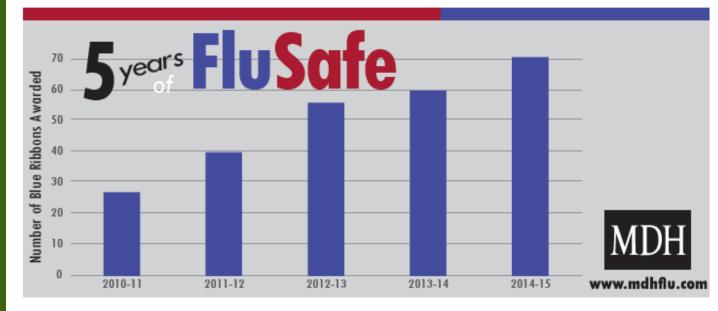
Health Care Personnel Influenza Vaccination

- FluSafe: HCP influenza vaccination program for hospitals and long-term cares
- Facilities use MIIC to accurately track rates and inform improvement efforts
- MDH publicly recognizes facilities with high rates
- Higher rates among participating facilities especially long-term cares







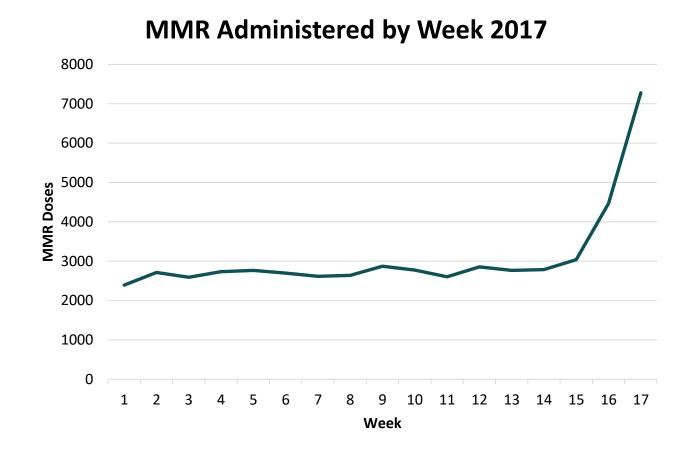


Child Care Reporting

- Minnesota requires child care centers to submit annual immunization report
- MIIC & Child Care Assistance Program helps centers complete report using MIIC data and tools
- Benefits to child cares
 - Frees up staff time
 - Reduces staff frustration
 - Limits report errors
- Benefits to public health
 - Improves MIIC information
 - Helps equip centers to promote immunizations

Outbreak Response

- MIIC is highly useful during VPD outbreaks (e.g. 2017 measles outbreak)
- Used to:
 - Verify immunization status of cases and exposed individuals quickly
 - Help providers determine which patients need vaccine
 - Watch overall vaccination trends
 - Order VFC vaccine





Thank you!

Kristen Ehresmann

Kristen.Ehresmann@state.mn.us

Text only version

14 MIIC Data sources user groups:

- Primary care clinic
- Specialty clinic
- Hospital
- Community vaccinator
- Pharmacy
- Occupational health
- Local public health
- Nursing home/long-term care
- School/school-based clinic
- Urgent care clinic
- Convenience/retail clinic
- College/university
- Home care/hospice
- Child care