



# Minnesota Immunization Information Connection

Monica Hemming | Data Quality Analyst, MIIC

June 21<sup>st</sup>, 2017

# Issue: Increasing number of pending clients

- A large increase in the number of pending clients was discovered during routine business operations. At highest, MIIC had 33,226 pending clients
- Upon review, it was noted that many of pending clients had similarities - the same first name, same last name, same mother's maiden name, and same birthdate.

# Pending Clients Script Development

To improve the management of pending clients, development of a weekly script to reduce the similar pending clients was requested.



# Data Fields Selected for Match Criteria

first\_name, middle\_name, last\_name, birth\_date , name\_suffix,  
sex\_code, mothers\_first\_name, mother\_maiden\_last, and  
birth\_certificate\_number

# Script Overview

- Create Temporary Tables
- Matching criteria: All data fields must match in order for client record to be merged
- Duplicate records deleted from pending table
- Changes are made to pending client table only. Existing data was not updated.

# Script Implementation

- Initial testing occurred in the MIIC test environment.
- Validation process included review of a sample of similar clients pre and post script.
- The samples were reviewed to determine likelihood of match prior to the script and as well completeness of record after the script was run.

# Script Implementation, cont'd

- The validation process was repeated for pendings in the MIIIC production environment.
- The script was run in batches by providers organization to minimize impact of possible errors and to facilitate the validation process.

Upon implementation of the weekly script, our pending client count was reduced by 53%.

- Pre-script Pending Client count: 28,745
- Duplicate Pending Client count: 15,332
- Post-script Remaining Pending Clients: 13,413



# Thank you!

**Monica Hemming**

*monica.hemming@state.mn.us*

651-201-4235