Immunization Quality Improvement: Reaching High-Risk Adults
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ABOUT MIIC
The Minnesota Immunization Information Connection (MIIC) is a statewide, confidential, web-based information system that contains shared immunization records. This system provides authorized users with the most complete immunization data available in the state. Established in 2002, MIIC contains nearly 71 million immunizations for 7.1 million clients of all ages. It is considered one of the most mature immunization information systems in the nation.

Most immunization data is entered into MIIC directly from electronic health record systems. MIIC also receives data on immunizations administered to Minnesota residents in North Dakota and Wisconsin through data sharing agreements with those states’ immunization programs.

AMI
MIIC is a valuable source of data tracking tools that can be used to improve clinical immunization practice, help providers reach high-risk adults for necessary vaccinations, support public health in assuring adequate population-based immunization coverage, and respond to vaccine-preventable disease threats. Additionally, MIIC supports administration of the Minnesota Vaccines for Children (MnVFC) program, and the Uninsured and Underinsured Adult Vaccine (UUAV) program.

KEY FEATURES/ACTIONS
• Immunization Clinical Decision Support
  MIIC offers client-specific immunization forecasting based on the latest recommendations from the Advisory Committee on Immunization Practices (ACIP) and that client’s age and vaccination history (See Figure 1). This clinical decision support informs the clinician of the vaccines that are overdue or due and recommended vaccination dates.

• Assessment Reports
  MIIC offers clinic- and county-based immunization coverage reports for children and adolescents. MDH is currently working towards adding an adult assessment report (See Figures 2 and 3). The assessment reports can help clinics and public health:
  - Generate baseline immunization rates
  - Identify areas for improvement
  - Implement practice changes and/or outreach activities

• Lists
  The list feature can be used to track immunization histories and immunizations due for a specific group of clients chosen by the user. Instead of looking up each client record one-by-one, the list feature provides a snapshot of the immunization status for an entire group of people at once.

EXAMPLES OF MIIC DATA USE/OUTCOMES
• Clinic-Based Immunization Quality Improvement
  MIIC data and tools are used to support quality improvement activities aimed at raising immunization coverage levels and improving standards of practice at the provider level. These tools give providers the ability to assess baseline clinic coverage levels, set objectives around immunization improvement, and track immunization levels over time.

• MDH Immunization Program Support
  The MDH Immunization Program uses MIIC as the main technology platform to make Minnesota vaccine programs easier to manage for providers and more accountable for MDH. Providers can use MIIC to order vaccine, track vaccine shipments, and help with required annual program reports. MDH also uses MIIC to support FluSafe, a voluntary program among hospitals and nursing homes to track healthcare worker flu vaccination. Participating organizations use MIIC to track healthcare worker flu vaccinations, and organizations with high flu coverage rates are publicly recognized.

MIIC’s newest functionality this year will allow providers to maintain and improve the immunization coverage of adults in Minnesota. MIIC and MDH Immunization Program staff continue to promote the use of the system throughout the state as well as enhance functionality and features to further serve a full range of MIIC users.

Figure 1. Forecaster Screen Shot

Figure 2. Assessment Reports Screen Shot

Figure 3. Adult Assessment Report Mockup

Figure 4. Client Follow-Up Screen Shot

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