An Overview of the MIIS

2019 MIAP Pediatric Immunization Skills-Building Conference
Disclosure

I, Brendan Gallagher, have been asked to disclose any significant relationships with commercial entities that are either providing financial support for this program or whose products or services are mentioned during this presentation.

I have no relationships to disclose.

I may discuss the use of vaccines in a manner not approved by the U.S. Food and Drug Administration, but in accordance with ACIP recommendations.
Agenda

- Overview of the MIIS
- Legislation & Regulations
- Data Sharing
- Onboarding
- Enhancements
- Training Updates
OVERVIEW OF THE MIIS
Overview of the MIIS

- Secure, confidential web-based system
- Consolidates immunization records over lifespan
- Assists providers with clinical decisions
- Includes practice management tools
- Hosts essential information for public health emergencies
# Core MIIS Functions

- Search for a patient record
- De-duplicate patient records and shots
- Look up an immunization forecast
- Manage a patient’s data sharing status
- Run usage, coverage, and reminder/recall reports
- Monitor data quality
- Vaccine ordering and inventory management
BoH, VNAs, Senior Care Facilities

Internal Med PCPs, Hospitals, Multispecialties, CHCs, OB/GYNs, etc.

E-Vitals Feed (Jan 2012)

Pediatric

School, SBHCs, College, etc.

Local Pharmacies
MIIS Progress Report - Data over time...

2011
- Total Sites: 9
- Total Patients: 3,902
- Total Shots: 69,505

2013
- Total Sites: 341
- Total Patients: 1,539,629
- Total Shots: 7,303,293

2015
- Total Sites: 1,121
- Total Patients: 4,427,623
- Total Shots: 33,334,571

2017
- Total Sites: 2,223
- Total Patients: 6,241,144
- Total Shots: 46,241,144

2019
- Total Sites: 2,580
- Total Patients: 7,356,518
- Total Shots: 60,083,720
MIIS Immunization Data by Provider Type

- Multi-Specialty: 39%
- Pediatric Practice: 18%
- Community Health Center: 16%
- Hospitals (Private): 7%
- Family Practice: 6%
- Commercial Pharmacy: 6%
- Internal Medicine: 4%
- Boards of Health: 1%
MIIS LEGISLATION AND REGULATION
Legislation (2010)

- Mandatory reporting of all immunizations administered in MA
- Provider’s duty to inform patients about the MIIS and patient’s right to object to data sharing
- State registry of vital statistics transmits immunization information regarding immunizations administered to a newborn
- Accessible by healthcare professionals that administer immunizations, schools, LBOH, WIC, and other state programs involved in immunizations
Regulations (2015)

- Set out required information to be transmitted with historical vaccinations and current vaccinations
- System access and confidentiality, provider registration, research requests
- Patient access to records, requests to amend records
- Provider’s duty to inform patients about the MIIS and patient’s right to object to data sharing
- Compliance schedule ended in June 2016 – all providers in MA should be reporting
DUTY TO INFORM AND DATA SHARING
Data Sharing Fast Facts

All administered immunizations are reported to the MIIS

Patients do not opt in or out of the MIIS

Providers have a duty to inform their patients about the MIIS

Patients may limit who can see their immunization data in the MIIS

Patients may object/withdraw a previous objection any number of times
Data Sharing = YES

All have access to single record regardless if they have or have not reported immunizations for patient
Data Sharing = NO or UNKNOWN

Providers who have reported shots can only review those shots.

Internal Med PCP

Providers who have not reported any shots do not have access to record

School

Pediatric
Data Sharing Process

1. Complete objection/withdrawal form
2. Update data sharing status in MIIS
3. Fax completed form to MIIS Team
4. File completed form in patient record
Data Sharing in the MIIS

**Declaration:**

All data in the MIIS is available to the Massachusetts Department of Public Health for disease prevention and control.

- **Yes** - status indicates that this client’s immunization record may be shared with Massachusetts health care providers, schools, and other agencies as described in M.G.L. c. 111, s.24M.
- **No** - status limits access of the client’s immunization information to only the health care provider site that entered the information into the system.
- **Unknown** - status is reserved for historical immunization information where the MIIS has not yet been discussed with the client.

*Data sharing status last updated: Apr 13, 2017*

By changing a client’s data sharing status, the MIIS user acknowledges that he/she has provided the MIIS Fact Sheet to the person receiving the vaccinations, or their parent/guardian, and has received a signed Objection (or Withdrawal of Objection) Form indicating a desire to change their or their child’s data sharing status in the MIIS. The MIIS Fact Sheet and Objection (or Withdrawal of Objection) Form can be downloaded at [NDPH MIIS Information for Parents and Patients webpage](#).
ONBOARDING
Onboarding

Please select how your site intends to report data:

**Electronic Data Exchange** - your site intends to connect via an electronic medical record system.
**Direct Data Entry** - your site intends to manually enter immunization data through the web interface.

Onboarding with the MIIS can be broken down into 4 phases:

Below are the high-level steps for onboarding to submit immunization data to the MIIS. Please review our [Onboarding Document](#) for more information.
Phase 1. Preparation
- Complete Data Exchange Profile
- Pre-Testing: HL7 Message Validation
- On-boarding Invite - Not Invited

Phase 2. MIIS On-Boarding Project: Certification
- Technical Readiness
- Clinical Readiness

Phase 3. MIIS On-Boarding Project: Production
- Data Review

Phase 4. MIIS On-Boarding Project: Go Live
- Implement Clinical Workflow
- Quarterly Data Quality Review
Phase 1
Preparation
- Registration
- Data Exchange Profile
- HL7 Message Pre-testing Validation
- MIIS Onboarding Invitation
- Onboarding Kick-off Call

Phase 2
Technical & Clinical Integration
- Technical
  - EHR to MIIS Certification Environment
  - Data Review in Certification Environment
- Clinical
  - MIIS Materials and Clinical Workflow
  - Staff Training and Vaccine Manager Education
Connect to Cert. Environment
Cert. Data Review
Workflow

Site Name:________________________ Date Submitted:__________
Clinical Champion:________________________ Email:________________________ Phone:________________________

Methods for Informing Patients* about MIIS (implement as many as possible):

☐ Distribute MIIS Fact Sheet for Patients and Parents (i.e. include with registration packets or VA letters, etc.)
☐ Add MIIS sample language to practice registration/HIPPA forms (circulate sample e.g. within letterheads)
☐ Post MIIS Posters in Registration and Clinic Areas (available in multiple languages)
☐ Other:

Objection/Withdrawal of Objection- action upon patient* request only

Designated Provider Staff gives MIIS Objection (or Withdrawal of Objection) Form to patient*

Designated Provider Staff collects the completed Objection (or Withdrawal of Objection) Form signed by patient*

MIIS User logs into the MIIS and changes the patient's Data Sharing Status in accordance with the completed form

MIIS User faxes completed MIIS Objection (or Withdrawal of Objection) Form to MDFH within 24 hours and files completed form with patient record

Workflow Complete

*Parent or Guardian for patients less than 18 years

Click to Email MIIS or fax to 617-963-4301
Fact Sheet for Parents and Patients

The MIIS is a new statewide system to keep track of immunization records for you and your family. These records list the vaccinations (shots) you and your children get to protect against measles, chickenpox, tetanus, and other diseases. The goal is to make sure that everyone in Massachusetts is up-to-date with their shots and that your records are available when you need them – such as when your child enters school, when you need emergency medical help, or when you change healthcare providers.

What is the MIIS?
- A comprehensive system that collects and stores basic immunization information for people who live in Massachusetts.
- A secure and confidential system, as required by Massachusetts law.
- A system that is available to people of all ages, not just children.

How will it help me?
- The MIIS helps you and your family get the best care whenever you go for your healthcare.
- Makes sure that you and your children don’t miss any shots or get for many.
- Helps track your child’s health history from when you were born, if you move, if you change insurance, or when your child starts school or camp.

Why is this important?
- As you know, the schedule of shots needed to keep healthy can be very complicated. The MIIS:
- Helps your healthcare provider keep track of which vaccines are due and when they should be given.
- Helps all of your immunization records together by you, your family, and your healthcare provider.
- Provides proof of vaccination for your children.
- Helps prevent outbreaks of diseases like measles and the flu in your community.
- Keeps track of records during natural disasters such as floods or hurricanes.

IMMUNIZATION REGISTRY NOTICE
You or your child’s shot information is being entered into the Massachusetts Immunization Information System (MIIS), as required by law. The MIIS is a confidential, statewide immunization tracking system. You can choose to restrict who may see your or your child’s shot information in the MIIS at any time. Please ask your healthcare provider for further information. Thank you.

AVISO SOBRE EL REGISTRO DE VACUNACIÓN
La información sobre sus vacunas o las de sus hijos está siendo almacenada, tal y como contempla la ley, en el Sistema de Información de Inmunización de Massachusetts (MIIS, por sus siglas en inglés). MIIS es un sistema confidencial que hace un seguimiento de los historiales de inmunización a nivel estatal. Usted tiene la opción de limitar quien tiene acceso a la información almacenada en MIIS sobre sus vacunas o las de sus hijos en cualquier momento. Consulte con su proveedor de salud si desea más información al respecto. Gracias.

Providers are required by law to report your immunizations to the MIIS (M.G.L. c. 111, Section 24M). For more information, please ask your healthcare provider, visit the MIIS website at www.mass.gov/immunization, or contact the Massachusetts Immunization Program directly at 817-666-6800 or 888-658-2650.

The law requires all providers of health care to report to the MIIS any immunizations given at any time to any patient. The MIIS is required to protect all information from access by unauthorized persons.
Phase 3
Data Review
- EHR to MIIS Production
- Data Review in Production

Phase 4
Go-Live
- Workflow Implementation
- Quarterly Data Quality Review
- On-going User Management
GO Live

Clinical Side
Data in the MIIS

Technical Side

- HL7 Validation
- CERT Data Quality
- PROD Data Quality
- GO LIVE
- Quarterly Data Review
ENHANCEMENTS
New Enhancements

➢ Clinical Roster Design
➢ Redesigned School Module
➢ Coverage Report to Assess 13 YO
➢ Data Quality Reports Updated
➢ Improved Patient and Shot Deduplication Performance
Upload Roster

A template for creating an Excel file to upload a roster may be downloaded at:

Roster Template

Instructions for using the Template may be downloaded at:

Instructions for Roster Upload Template

Select file:  Select file:

Back  Upload

Close
<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Sanchez</td>
<td>Rick</td>
<td></td>
<td>8/5/1952</td>
<td>PHONE # (XXX) XXX-XXXX</td>
<td>6/14/2010 Not VFC Eligible</td>
<td>Yes</td>
</tr>
<tr>
<td>3</td>
<td>Smith</td>
<td>Morty</td>
<td></td>
<td>9/7/2006</td>
<td></td>
<td>6/14/2010 VFC Eligible, Medicaid</td>
<td>Yes</td>
</tr>
<tr>
<td>4</td>
<td>Smith</td>
<td>Beth</td>
<td></td>
<td>10/29/1954</td>
<td></td>
<td>6/14/2010 Not VFC Eligible</td>
<td>Yes</td>
</tr>
<tr>
<td>5</td>
<td>Herpson</td>
<td>Harry</td>
<td></td>
<td>7/11/1979</td>
<td></td>
<td>6/14/1979 Not VFC Eligible</td>
<td>Yes</td>
</tr>
<tr>
<td>A</td>
<td>B</td>
<td>C</td>
<td>D</td>
<td>E</td>
<td>F</td>
<td>G</td>
<td>H</td>
</tr>
<tr>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>1</td>
<td>NUMBER</td>
<td>*LAST NAME</td>
<td>MIDDLE NAME</td>
<td>*DATE OF BIRTH MM/DD/YYYY</td>
<td>PHONE # (XXX) XXX-XXXX</td>
<td>*VIS PUB DATE MM/DD/YYYY</td>
<td>*VFC ELIGIBILITY</td>
</tr>
<tr>
<td>2</td>
<td>1</td>
<td>Bannana</td>
<td>Chiquita</td>
<td>8/5/1952</td>
<td>6/14/2010</td>
<td>Not VFC Eligible</td>
<td>Yes</td>
</tr>
<tr>
<td>3</td>
<td>2</td>
<td>Donut</td>
<td>Dunckin</td>
<td>9/7/2006</td>
<td>6/14/2010</td>
<td>VFC Eligible, Medicaid</td>
<td>Yes</td>
</tr>
<tr>
<td>4</td>
<td>3</td>
<td>King</td>
<td>Burger</td>
<td>10/29/1954</td>
<td>6/14/2010</td>
<td>Not VFC Eligible</td>
<td>Yes</td>
</tr>
<tr>
<td>5</td>
<td>4</td>
<td>Dew</td>
<td>Mountain</td>
<td>7/11/1979</td>
<td>6/14/2010</td>
<td>Not VFC Eligible</td>
<td>Yes</td>
</tr>
<tr>
<td>6</td>
<td>5</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>6</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>7</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>8</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>9</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>10</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>11</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>12</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>13</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>14</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>15</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>16</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
The following fields can be used to default the values in the table below to enhance data entry.

**Please note this functionality only applies the default values to blank rows. The default values will not apply to rows that contain any existing data.**

<table>
<thead>
<tr>
<th>ACTION</th>
<th>*LAST NAME</th>
<th>*FIRST NAME</th>
<th>MIDDLE NAME</th>
<th>*DATE OF BIRTH</th>
<th>PHONE #</th>
<th>*VIS PUB DATE</th>
<th>*VFC ELIGIBILITY</th>
<th>*DATA SHARING STATUS</th>
<th>SITE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Clear</td>
<td>BANNANA</td>
<td>CHIQUITA</td>
<td>08/05/1952</td>
<td></td>
<td>06/14/201C</td>
<td>Not VFC Elig</td>
<td>Yes</td>
<td>Left Arm</td>
</tr>
<tr>
<td>2</td>
<td>Clear</td>
<td>DONUT</td>
<td>DUNCKIN</td>
<td>09/07/2006</td>
<td></td>
<td>06/14/201C</td>
<td>VFC Eligible</td>
<td>Yes</td>
<td>Left Arm</td>
</tr>
<tr>
<td>3</td>
<td>Clear</td>
<td>KING</td>
<td>BURGER</td>
<td>10/29/1954</td>
<td></td>
<td>06/14/201C</td>
<td>Not VFC Elig</td>
<td>Yes</td>
<td>Left Arm</td>
</tr>
<tr>
<td>4</td>
<td>Clear</td>
<td>DEW</td>
<td>MOUNTAIN</td>
<td>07/11/1975</td>
<td></td>
<td>05/14/201C</td>
<td>Not VFC Elig</td>
<td>Yes</td>
<td>Select</td>
</tr>
<tr>
<td>5</td>
<td>Clear</td>
<td></td>
<td></td>
<td>mm/dd/yyyy</td>
<td></td>
<td>Select</td>
<td>Yes</td>
<td>Select</td>
<td>Select</td>
</tr>
<tr>
<td>6</td>
<td>Clear</td>
<td></td>
<td></td>
<td>mm/dd/yyyy</td>
<td></td>
<td>Select</td>
<td>Yes</td>
<td>Select</td>
<td>Select</td>
</tr>
<tr>
<td>7</td>
<td>Clear</td>
<td></td>
<td></td>
<td>mm/dd/yyyy</td>
<td></td>
<td>Select</td>
<td>Yes</td>
<td>Select</td>
<td>Select</td>
</tr>
<tr>
<td>8</td>
<td>Clear</td>
<td></td>
<td></td>
<td>mm/dd/yyyy</td>
<td></td>
<td>Select</td>
<td>Yes</td>
<td>Select</td>
<td>Select</td>
</tr>
</tbody>
</table>
School Survey Enhancements

- New Wizard Design
- Auto Save
- Expanded Instructions for Each Vaccine
- Errors Displayed within Survey
- Notification of Completion
Future Enhancements

- Minor UI Update
- Modifications to Vaccine Orders
- Single Sign On for MIIS and Resource Center
Featured Trainings!

Welcome Back, Tricia!

**ALERTS**
Welcome to the new MIIS!
Watch the 2018 MIIS Release Webinar or view the Log In and Navigation Mini Guide to learn more about the new navigation and system updates.
- New Release Webinar
- Log In and Navigation Mini Guide

**TAKE ACTION**
- As of 09/20/2018 02:10 AM, 499 patients required review for manual deduplication - REVIEW DUPLICATE PATIENTS
- As of 09/20/2018 02:10 AM, 366 immunizations required review for manual deduplication - REVIEW DUPLICATE IMMUNIZATIONS

**DELIVERED REPORTS**
No delivered reports

MIIS Helpdesk
Tel: 617-983-4335
Fax: 617-983-4301
Email: mishelpdesk@state.ma.us

© 2018 Commonwealth of Massachusetts Department of Public Health | Division of Epidemiology and Immunization
TRAINING UPDATES
MIIS Vaccine Management 101 webinar trainings:

- OCTOBER 29  
- DECEMBER 17  
- FEBRUARY 25  
- APRIL 28  
- JUNE 23  
- AUGUST 25  

12-1PM

For new vaccine coordinators learning the MIIS!
CONTACT US

MIIS Helpdesk
Phone (617) 983-4335
Fax (617) 983-4301
Email miishelpdesk@state.ma.us
Website www.contactmiis.info