MIAP 2016

Massachusetts Immunization Program Update

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Disclosures

- I, Pejman Talebian, 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 my presentations.
  - 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.
Outline

- Vaccine Availability Updates
- Vaccine Storage and Handling
- Review of Immunization Exemption Rates and Vaccine/Exemption Gap
- Status of the Massachusetts Immunization Information System (MIIS)
Vaccine Availability

- Vaccine brand choice is always an option for providers
- Hiberix®, manufactured by GlaxoSmithKline is the most recent addition to the brand choice option
- Brand choices are recommended by the Massachusetts Vaccine Purchasing Advisory Committee (MVPAC)
Full Universal Status For Routine ACIP Recommended Vaccines

- Massachusetts is fully universal state for all routinely recommended ACIP vaccines
- In August 2015, meningococcal group B (MenB) vaccines were made available to specific high risk groups
  - Bexsero®, a 2-dose series manufactured by GlaxoSmithKline (GSK)
  - Trumenba®, a 3-dose series manufactured by Pfizer
- MenB vaccines are also available to VFC-eligible adolescents 16 to 18 years of age to provide short term protection against most strains of serogroup B meningococcal disease (permissive recommendation)
Data Logger Replacements

- All Fridge-tag®2 refrigerator and freezer loggers have been replaced by Fridge-tag®2L data loggers
- Fridge-tag®2L data loggers have a 3-year battery life and calibration
- Reports have pdf and txt files to allow temperature reporting in 10-minute intervals
- Graphs are available for determining the length and frequency of freezer defrost cycles
- MDPH plans to supply Fridge-tag®2L data loggers for all secondary vaccine storage units at pediatric sites
New Storage and Handling Requirements for 2017

- Continuous temperature monitoring data loggers (Fridge-tag®2L or comparable) will be required for all vaccine storage units (primary and secondary) at all sites administering pediatric vaccines
- Pharmaceutical grade stand alone refrigerators are currently required for all primary vaccine storage refrigerators
  - Sites will be suspended from ordering vaccines if not in compliance
- Pharmaceutical grade stand alone refrigerators are strongly recommended for all secondary vaccine storage refrigerators
Pharmaceutical Grade Refrigerator

- Although there is no clear description of a pharmaceutical refrigerator, we have identified the following characteristics:
  - Internal fans to disperse cold air throughout the unit, eliminating cold pockets of air
  - Wire racks to allow better air flow
  - No storage bins, or shelves on door
  - Typically, have a narrow operating range (less than 2 Celsius degrees or 3 Fahrenheit degrees)
Immunization Exemptions Among Kindergarten Students, 1987-2015

Source: Massachusetts School Immunization Surveys 1987-2015
Rates of Kindergarten Students with an Exemption, By County, 2015

Source: Massachusetts School Immunization Surveys 2015
Religious and medical exemptions combined

MA Total Rate = 1.3%
Rates of Kindergarten Students with an Exemption, By County, 2015

Source: Massachusetts School Immunization Surveys 2015
religious and medical exemptions combined

Rates of K Students with Exemption and No Vaccines, By County, 2015

Source: Massachusetts School Immunization Surveys 2015
religious and medical exemptions combined

State Total: 0.5%

School Vaccination and Exemption Rates Posted

- Visit [www.mass.gov/dph/imm](http://www.mass.gov/dph/imm) and go under “School Immunizations” to find the rates
- Rates posted for 2013-14, 2014-15 and 2015-16 school years for:
  - Childcare/preschools
  - Kindergarten
  - 7th grade
- Schools with <30 children do not have rates posted
- Schools that did not respond to the survey are indicated
# Massachusetts Kindergarten Immunization Survey Results 2015-2016

The Massachusetts Department of Public Health Immunization Program is pleased to make available the 2015-2016 Massachusetts kindergarten immunization survey results by school. Please be aware that the data are limited in a number of ways, including those listed below.

- Data release standards do not allow for data to be shared for schools with fewer than 30 reported kindergarteners. Schools that submitted a survey and reported fewer than 30 kindergarteners are indicated (†).

## Massachusetts Kindergarten Immunization Survey Results 2015-16

<table>
<thead>
<tr>
<th>School Name</th>
<th>School Type</th>
<th>City</th>
<th>County</th>
<th>5 DTPa</th>
<th>4 Polio</th>
<th>2 MMR</th>
<th>3 Hep B</th>
<th>Immunity to Chickenpox</th>
<th>Exemption</th>
<th>Un-immunized</th>
<th>No Record</th>
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</thead>
<tbody>
<tr>
<td>CENTER ELEMENTARY SCHOOL</td>
<td>Public</td>
<td>ABINGTON</td>
<td>Plymouth</td>
<td>100%</td>
<td>100%</td>
<td>100%</td>
<td>100%</td>
<td>100%</td>
<td>0.0%</td>
<td>0.0%</td>
<td>0.0%</td>
</tr>
<tr>
<td>ST BRIDGET SCHOOL</td>
<td>Private</td>
<td>ABINGTON</td>
<td>Plymouth</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>†</td>
</tr>
<tr>
<td>C.T. DOUGLAS</td>
<td>Public</td>
<td>ACTON</td>
<td>Middlesex</td>
<td>96%</td>
<td>96%</td>
<td>96%</td>
<td>96%</td>
<td>96%</td>
<td>3.7%</td>
<td>1.9%</td>
<td>0.0%</td>
</tr>
<tr>
<td>LUTHER CONANT</td>
<td>Public</td>
<td>ACTON</td>
<td>Middlesex</td>
<td>100%</td>
<td>100%</td>
<td>100%</td>
<td>100%</td>
<td>100%</td>
<td>2.8%</td>
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</tr>
<tr>
<td>MCCARTHY-TOWNE</td>
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<td>ACTON</td>
<td>Middlesex</td>
<td>92%</td>
<td>92%</td>
<td>92%</td>
<td>92%</td>
<td>90%</td>
<td>10.2%</td>
<td>5.1%</td>
<td>0.0%</td>
</tr>
<tr>
<td>MERRIAM SCHOOL</td>
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<td>ACTON</td>
<td>Middlesex</td>
<td>96%</td>
<td>93%</td>
<td>100%</td>
<td>100%</td>
<td>93%</td>
<td>0.0%</td>
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<td>0.0%</td>
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<tr>
<td>P.P. GATES</td>
<td>Public</td>
<td>ACTON</td>
<td>Middlesex</td>
<td>96%</td>
<td>100%</td>
<td>98%</td>
<td>100%</td>
<td>96%</td>
<td>1.9%</td>
<td>0.0%</td>
<td>0.0%</td>
</tr>
<tr>
<td>ACUSHNET ELEMENTARY</td>
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<td>ACUSHNET</td>
<td>Bristol</td>
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<td>100%</td>
<td>100%</td>
<td>99%</td>
<td>100%</td>
<td>0.0%</td>
<td>0.0%</td>
<td>0.0%</td>
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<tr>
<td>ST FRANCIS XAVIER SCHOOL</td>
<td>Private</td>
<td>ACUSHNET</td>
<td>Bristol</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>†</td>
</tr>
<tr>
<td>PLUNKETT ELEMENTARY</td>
<td>Public</td>
<td>ADAMS</td>
<td>Berkshire</td>
<td>92%</td>
<td>95%</td>
<td>97%</td>
<td>93%</td>
<td>92%</td>
<td>87%</td>
<td>0.0%</td>
<td>0.0%</td>
</tr>
<tr>
<td>ST STANISLAUS KOSTKA</td>
<td>Private</td>
<td>ADAMS</td>
<td>Berkshire</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>†</td>
</tr>
<tr>
<td>BENJAMIN PHELPS</td>
<td>Public</td>
<td>AGAWAM</td>
<td>Hamden</td>
<td>95%</td>
<td>97%</td>
<td>97%</td>
<td>97%</td>
<td>95%</td>
<td>4.7%</td>
<td>3.1%</td>
<td>0.0%</td>
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<tr>
<td>JAMES CLARK SCHOOL</td>
<td>Public</td>
<td>AGAWAM</td>
<td>Hamden</td>
<td>92%</td>
<td>94%</td>
<td>90%</td>
<td>94%</td>
<td>89%</td>
<td>9.5%</td>
<td>3.2%</td>
<td>0.0%</td>
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</tbody>
</table>
School Vaccination and Exemption Rates Posted

You may notice:
% students vaccinated + % students exempt ≠ 100%

What about the rest of the kids?
% vaccinated + % exempt + % vaccine/exemption gap = 100%

Vaccine/exemption gap = students who are under or un-vaccinated without an exemption on file, or who are vaccinated but haven’t provided documentation of any/all vaccines to school. This could include children on a catch-up schedule or enrolled to school according to the McKinney-Vento Homeless Assistance Act.
Vaccine/Exemption Gap

- For the 2015-16 school year
  - 93.00% kindergarteners vaccinated with all required vaccine
  - + 1.35% medical or religious exemption
  - \(\frac{93.00\% + 1.35\%}{94.35\%}\)
  - This leaves \(5.65\%\) vaccine/exemption gap

- This is a much larger group than kids with exemptions

- Address the vaccine/exemption gap:
  - Providers ensuring all their patients properly vaccinated per ACIP recommendations.
  - School nurses strongly enforcing school entry requirements and ensuring they have complete immunization records.
  - Providers entering information into MIIS.
MIIS Status Update

- MIIS Onboarding Status
- Recent System Upgrades
- Looking Ahead – Coming Enhancements
- What you can do now
MIIS Growth in Data...

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

2012
- Total Sites: 55
- Total Patients: 815,928
- Total Shots: 3,371,434

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

2014
- Total Sites: 532
- Total Patients: 2,370,194
- Total Shots: 13,597,285

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

October 2016
- Total Sites: 1,881
- Total Patients: 5,332,376
- Total Shots: 38,320,148

### Number of Sites by Practice Type

<table>
<thead>
<tr>
<th>SITE TYPE</th>
<th>TOTAL SITES</th>
<th>TOTAL IMMUNIZATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Commercial Pharmacy</td>
<td>897</td>
<td>1,105,581</td>
</tr>
<tr>
<td>Pediatric</td>
<td>176</td>
<td>4,782,473</td>
</tr>
<tr>
<td>Board of Health/VNAs/Home Health Agency</td>
<td>132</td>
<td>220,709</td>
</tr>
<tr>
<td>Internal Medicine</td>
<td>130</td>
<td>1,132,512</td>
</tr>
<tr>
<td>Family Practice</td>
<td>113</td>
<td>1,576,123</td>
</tr>
<tr>
<td>Community Health Center</td>
<td>74</td>
<td>5,895,729</td>
</tr>
<tr>
<td>Specialty Practice</td>
<td>69</td>
<td>140,327</td>
</tr>
<tr>
<td>Multi-Specialty</td>
<td>66</td>
<td>7,455,634</td>
</tr>
<tr>
<td>Hospital (Public and Private)</td>
<td>59</td>
<td>3,137,323</td>
</tr>
<tr>
<td>OB/GYN</td>
<td>54</td>
<td>64,198</td>
</tr>
<tr>
<td>School/College (Public and Private)</td>
<td>26</td>
<td>206,681</td>
</tr>
<tr>
<td>*Other</td>
<td>24</td>
<td>107,919</td>
</tr>
<tr>
<td>Employee Health</td>
<td>20</td>
<td>30,734</td>
</tr>
<tr>
<td>Correctional Facility</td>
<td>15</td>
<td>10,388</td>
</tr>
<tr>
<td>Councils on Aging</td>
<td>10</td>
<td>5,326</td>
</tr>
<tr>
<td>Urgent Care Center</td>
<td>10</td>
<td>7,587</td>
</tr>
<tr>
<td>Nursing Home/LTCF/Assisted Living</td>
<td>3</td>
<td>1,201</td>
</tr>
<tr>
<td>Commercial Vaccinator</td>
<td>1</td>
<td>170,787</td>
</tr>
<tr>
<td>MDPH</td>
<td>1</td>
<td>109,395</td>
</tr>
<tr>
<td>Partner's Flat File</td>
<td>1</td>
<td>12,159,521</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>1881</strong></td>
<td><strong>38,320,148</strong></td>
</tr>
</tbody>
</table>
Recent System Upgrades...

June 2016
- Vaccine Recall
- Returns/Storage & Handling
- Flu ceiling/Flu Ordering
- System Usage Dashboard

August 2016
- *New* School Module
- Updated Coverage Reports
- Enhanced Roster Entry (Clinics)
Looking Ahead...

- Bi-Directionality
- Data Quality Report
- Inventory Deduction Tool
MIIS – What You Can Do TODAY!

• Attend a MIIS Breakout Session:
  ▪ AM Session: MIIS – A Sure Shot: Using the MA Immunization Information System (MIIS) In Your Practice
  ▪ PM Session: MIIS Using the MIIS to Improve Vaccination Rates in Your Practice

• Visit the MIIS Table to learn more about:
  ▪ Legal responsibilities for reporting immunizations
  ▪ Coming on board with the MIIS
  ▪ Registering to gain access to the MIIS
  ▪ Training Opportunities

• Visit the ContactMIIS Resource Center at www.contactmiis.info
MDPH Immunization Program

Contact Information

General Information
- Phone: 617-983-6800
- Fax: 617-983-6840
- Website: www.mass.gov/dph/imm

MIIS Help Desk
- Phone: 617-983-4335
- Fax: 617-983-4301
- Email: miishelpdesk@state.ma.us
- Websites: www.contactmiis.info | www.mass.gov/dph/miis

MDPH Vaccine Unit
- Phone: 617-983-6828
- Fax: 617-983-6924
- Email: dph-vaccine-management@state.ma.us
- Website: www.mass.gov/dph/imm (click on Vaccine Management)