Overview

• The context of IIS in the larger Health IT system
  – Provider Incentives and Meaningful Use (CMS Rule)
  – Software certification referenced in Meaningful Use (ONC Rule)
• Resources available to public health agencies
  – The “90/10” program
• Pilot projects – pushing the boundaries
  – Moving IIS records from jurisdiction to jurisdiction
  – Direct consumer access to IIS
**CMS Rule**

**Medicare and Medicaid Programs; Electronic Health Record Incentive Program-Stage 3 and Modifications to Meaningful Use in 2015 and 2017**

- Align all three stages of Meaningful Use into single program/rule
  - All providers would meet Stage 3 requirements starting in 2018
  - Phased-in timelines that allows some providers to continue to meet Stage 1 and Stage 2 requirements in 2017
- Aligns reporting periods – calendar year reporting for eligible professionals, eligible hospitals and critical access hospitals
  - Full year reporting periods
  - Allows 90 day reporting periods for first time attesters in 2017 only
- Provides simplified objectives and measures –
  - Modification: Objective 10: Public Health and Clinical Data Registry Reporting
  - Stage 3: Objective 8: Public Health and Clinical Data Registry Reporting

**ONC Rule**

**2015 Edition Health Information Technology (Health IT) Certification Criteria, 2015 Edition Base Electronic Health Record (EHR) Definition, and ONC Health IT Certification Program Modifications**

- New 2015 Base EHR Definition
- No optional/required criteria – developers should choose the criteria relevant to their purpose
- Can be used beyond CMS EHR Incentive Program
Mod Rule: Objective 10: Public Health and Clinical Data Registry Reporting

- NPRM Proposed Objective: The EP, eligible hospital, or CAH is in active engagement with a PHA or CDR to submit electronic public health data in a meaningful way using certified EHR technology, except where prohibited, and in accordance with applicable law and practice.
  - Six possible measures to meet the objective
    • Eligible professionals must meet three measures
    • Eligible Hospitals and Critical Access Hospitals must meet four measures

- Final Rule Objective: Unchanged
  - Six possible measures to meet the objective
    • Eligible professionals must meet TWO measures
    • Eligible Hospitals and Critical Access Hospitals must meet THREE measures

Mod Rule: Measures for Objective 10

- Measure 1 – Immunization Registry Reporting
- Measure 2 – Syndromic Surveillance Reporting
- Measure 3 – Case Reporting (Dropped for Mod Rule)
- Measure 4 - Public Health Registry Reporting
- Measure 5 - Clinical Data Registry Reporting (Now Specialized Registries Includes Cancer for EP)
- Measure 6 - Electronic Reportable Laboratory Results
Stage 3 Rule: Objective 8: Public Health and Clinical Data Registry Reporting

- NPRM Proposed Objective: The EP, eligible hospital, or CAH is in active engagement with a PHA or CDR to submit electronic public health data in a meaningful way using certified EHR technology, except where prohibited, and in accordance with applicable law and practice.
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    - Eligible professionals must meet three measures
    - Eligible Hospitals and Critical Access Hospitals must meet four measures

- Final Rule Objective: Unchanged

Stage 3: Measures for Objective 8

- **Measure 1 – Immunization Registry Reporting**
- Measure 2 – Syndromic Surveillance Reporting
- Measure 3 – Case Reporting
- Measure 4 - Public Health Registry Reporting
- Measure 5 - Clinical Data Registry Reporting
- Measure 6 - Electronic Reportable Laboratory Results
State Flexibility for Stage 3 of Meaningful Use

- Consistent with our approach under both Stage 1 and 2, we propose to continue to offer states flexibility under the Medicaid EHR Incentive Program in Stage 3 by adding a new provision at § 495.316(d)(2)(iii) subject to the same conditions and standards as the Stage 2 flexibility policy. Under Stage 3, state flexibility would apply only with respect to the public health and clinical data registry reporting objective outlined under section II.A.1.c.(1).(b).(i). of this proposed rule.

- For Stage 3 of meaningful use, we would continue to allow states to specify the means of transmission of the data and otherwise change the public health agency reporting objective as long as it does not require functionality greater than what is required for Stage 3 and included in the 2015 Edition proposed rule elsewhere in this issue of the Federal Register.

State Flexibility for Stage 3 of Meaningful Use

- Potential to make Immunization Registry reporting required
- May only to apply to Medicaid providers
For EPs, we proposed that an exclusion for a measure does not count toward the total of two measures. Instead, in order to meet this objective an EP would need to meet two of the total number of measures available to them. If the EP qualifies for multiple exclusions and the remaining number of measures available to the EP is less than two, the EP can meet the objective by meeting the one remaining measure available to them and claiming the applicable exclusions. If no measures remain available, the EP can meet the objective by claiming applicable exclusions for all measures. An EP who is scheduled to be in Stage 1 in 2015 must report at least one measure unless they can exclude from all available measures. Available measures include ones for which the EP does not qualify for an exclusion.

- Adopted as proposed.

Alternate exclusions extended to 2017
- Immunization Registry reporting not included as a measure for which providers can take an alternate exclusion
Active Engagement (page 425)

- Active engagement means that the provider is in the process of moving towards sending "production data" to a public health agency or clinical data registry, or is sending production data to a public health agency or clinical data registry.
- We noted that the term "production data" refers to data generated through clinical processes involving patient care and it is used to distinguish between this data and "test data” which may be submitted for the purposes of enrolling in and testing electronic data transfers.
- We proposed that "active engagement" may be demonstrated by any of the following options:
  - Option 1 – Completed Registration to Submit Data:
  - Option 2 - Testing and Validation
  - Option 3 – Production

NPRM: Measure 1 – Immunization Registry Reporting:

- The EP, eligible hospital, or CAH is in active engagement with a public health agency to submit immunization data and receive immunization forecasts and histories from the public health immunization registry/immunization information system (IIS).
NPRM: Exclusions for Measure 1 – Immunization Registry Reporting:

Any EP, eligible hospital, or CAH meeting one or more of the following criteria may be excluded from the immunization registry reporting measure if the EP, eligible hospital, or CAH: (1) Does not administer any immunizations to any of the populations for which data is collected by their jurisdiction's immunization registry or immunization information system during the EHR reporting period; (2) operates in a jurisdiction for which no immunization registry or immunization information system is capable of accepting the specific standards required to meet the CEHRT definition at the start of the EHR reporting period; or (3) operates in a jurisdiction where no immunization registry or immunization information system has declared readiness to receive immunization data at the start of the EHR reporting period.

Mod Rule: Immunization Registry Reporting:

• We appreciate commenters' concerns regarding the addition of a bi-directionality requirement for the EHR reporting periods covered by the modified Stage 2 requirements. We agree with commenters that additional time may be needed for both public health agencies and providers to adopt the necessary technology to support bi-directional functionality. Therefore, **we are not finalizing the bi-directionality proposal in the EHR Incentive Programs for 2015 through 2017.**
Stage 3 Rule:– Immunization Registry Reporting:

• For clarification, we note that the provider's technology certified in accordance with the ONC Health IT Certification Program may layer additional information and recommendations on top of the forecast received from the immunization registry. The requirements of CEHRT serve only as a baseline upon which additional capabilities may be built.

• ...we are finalizing this measure, with the modification that a provider's health IT system may layer additional information on the immunization history, forecast, and still successfully meet this measure

NPRM: § 170.315(f)(1) (Transmission to immunization registries)

• HL7 Version 2.5.1: Implementation Guide for Immunization Messaging, Release 1.5 (October 2014)
• Require NDC Codes for recording administered vaccines, require CVX codes for historical vaccines
• Require a Health IT Module presented for certification to this criterion to be able to request, access and display an immunization history and forecast from an immunization registry
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<tr>
<td>• <strong>...have adopted HL7 Version 2.5.1: Implementation Guide for Immunization Messaging, Release 1.5 (October 1, 2014) and HL7 Version 2.5.1: Implementation Guide for Immunization Messaging, Release 1.5, Addendum (July 2015)</strong> for the transmission to immunization requirement. We clarify that to meet this criterion, health IT must comply with all mandatory requirements of Release 1.5 and its addendum, which would include the coding for race and ethnicity. The 2015 Edition “demographics” criterion and Common Clinical Data Set requirements related to race and ethnicity are not implicated by this criterion.</td>
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<tr>
<td>• we finalize a criterion that supports one set of codes to be used for administered vaccines at all times and another set of codes to be used for historical vaccines at other times.</td>
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<td>• <strong>...we have adopted the August 17, 2015 version of the CVX code set as the minimum standards code set for historical vaccines.</strong></td>
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<tr>
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Require a Health IT Module presented for certification to this criterion to be able to request, access and display an immunization history and forecast from an immunization registry

- We have adopted the requirement for a Health IT Module to enable a user to request, access, and display a patient’s immunization history and forecast from an immunization registry in accordance with the Release 1.5 IG.
- However, we note that this criterion does not prescribe a particular workflow or reconciliation requirements. Providers and health IT developers may reconcile forecast and history information in a manner that best meets their needs for workflow and patient safety.

CEHRT – Immunization Registries

- CEHRT under Mod Rule Years, 2015-2017:
  - HL7 2.5.1 Implementation Guide for Immunization Messaging Release 1.4 (August 2012)
- CEHRT under Stage 3 Option Year 2017:
- CEHRT under MU Stage 3 2018 and beyond:
Bridging the Healthcare Digital Divide: Improving Connectivity Among Medicaid Providers

Connecting All Parts of the Health System

That's why today, we are announcing an initiative to bring interoperable technology to a broader universe of health care providers, including long-term care, behavioral health providers, substance abuse treatment centers, and other providers that have been slower to adopt technology. This announcement will help to bridge an information-sharing gap in Medicaid by permitting states to request the 90 percent enhanced matching funds from CMS to connect a broader variety of Medicaid providers to a health information exchange than those providers who are eligible for such connections today. This additional funding will enhance the sustainability of health information exchanges and lead to increased connectivity among Medicaid providers.

Doctors and other clinicians need access to the right information at the right time in a manner they can use to make decisions that impact their patient's health. The free flow of information is hampered when not all doctors, facilities, or other practice areas are able to make a complete circuit. Adding long-term care providers, behavioral health providers, and substance abuse treatment providers, for example, to statewide health information exchange systems will enable seamless sharing of a patients' health information between doctors or other clinicians when it's needed. This sharing helps create a more complete care team to collaborate on the best treatment plans and goals for Medicaid patients.

Andy Slavitt, Centers for Medicare & Medicaid Services (CMS) Acting Administrator, Karen DeSalvo, National Coordinator for Health Information Technology (ONC) and Acting Assistant Secretary for Health


How it works

• This funding goes directly to the state Medicaid agency in the same way existing Medicaid HITECH administrative funds are distributed
  o State completes IAPD (Implementation Advanced Planning Document) to be reviewed by CMS
  o States complete Appendix D (HIE information) for IAPD as appropriate
• This funding is in place until 2021 and is a 90/10 Federal State match. The state is still responsible for providing the 10%.
• The funding is for HIE and interoperability only, not to provide EHRs.
• The funding is for implementation only, it is not for operational costs.
• The funding still must be cost allocated if other entities than the state Medicaid agency benefit
• All providers or systems supported by this funding must connect to Medicaid EPs.
Several HIE modules and use cases are specifically called out for support:

- **Provider Directories**: with an emphasis on dynamic provider directories that allow for bidirectional connections to public health and that might be web-based, allowing for easy use by other Medicaid providers with low EHR adoption rates
- **Secure Messaging**: with an emphasis on partnering with DirectTrust
- **Encounter Alerting**
- **Care Plan Exchange**
- **Health Information Services Providers (HISP) Services**
- **Query Exchange**
- **Public Health Systems**

Any requested system must support Meaningful Use for a Medicaid EP in some manner. So, for example, the content in the Alerting feed or Care Plan must potentially help an EP meet an MU measure.

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**Public Health Systems**

- The public health systems that support Eligible Providers in achieving Meaningful Use may now obtain support for:
  - Immunization Registries
  - Syndromic Surveillance Registries
  - Specialty Registries
    - Prescription Drug Monitoring Programs (non-MMIS)
    - Other diseases/conditions that are state priorities (homelessness, lead exposure, etc.)
  - Architecture for the registries can now be supported, not just connections
CMS Oversight

- Cost allocation requirements from SMD 11-004* remain in place:

  CMS will work with States on an individual basis to determine the most appropriate cost allocation methodology:
  - HITECH cost allocation formulas should be based on the direct benefit to the Medicaid EHR incentive program, taking into account State projections of eligible Medicaid provider participation in the incentive program.
  - Cost allocation must account for other available Federal funding sources, the division of resources and activities across relevant payers, and the relative benefit to the State Medicaid program, among other factors.
  - Cost allocations should involve the timely and ensured financial participation of all parties so that Medicaid funds are neither the sole contributor at the onset nor the primary source of funding. Other payers who stand to benefit must contribute their share from the beginning. The absence of other payers is not sufficient cause for Medicaid to be the primary payer.

<table>
<thead>
<tr>
<th>Federal/State Program</th>
<th>Medicaid Share [%/$$]</th>
<th>Federal Share [%/$$]</th>
<th>State Share [%/$$]</th>
<th>TBD Share (dilute this column as many times as necessary) [%/$$]</th>
<th>Total Program Cost [$$]</th>
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<tbody>
<tr>
<td>Medicaid EHR Incentive Program</td>
<td></td>
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CMS Oversight

- New funding must connect Medicaid providers and map to specific MU measures (to be described by the state)
- Implementation benchmarks to be defined by the state
- States should assume data will be requested regarding MU implications of new systems and newly on-boarded providers
- For new systems without defined data standards (Encounter Alerting, Care Plan Exchange), the systems must still support some MU measure to be defined by the state.
The Public Health Immunization Pilot Project was launched to address the need to share immunization cross jurisdictional boundaries.

Upon completion of the project providers will be able to request a patient’s record from another immunization registry and retrieve that data across jurisdictional boundaries.

By creating a transport hub, participating pilot sites will be able to exchange immunization data across jurisdictional boundaries through the centralized hub via a SOAP Web Service utilizing adopted and approved standards for interoperability.
**Use Case Objective:** For an Immunization Information System (IIS) to respond to a transaction that contains current or historical addresses that are outside its jurisdiction by triggering a QBP or VXU to the other jurisdiction’s IIS.

**State Updates**

- **Oregon**
  - Ready for production
  - MOU and DUA complete

- **Washington**
  - Certificate installation stalled
  - MOU complete
  - DUA held up in legal
State Updates

- West Virginia
  - Ready for production
  - MOU and DUA complete
- Washington DC
  - Ready for production
  - MOU and DUA need review by new Immunization Program Staff

State Updates

- Maryland
  - SOW signed with HP
  - MOU and DUA complete
- Louisiana
  - SOW signed with STC
  - MOU complete and DUA complete
- Mississippi
  - SOW signed with HP
  - MOU and DUA under review
State Updates

- Envision SOW signed
  - Identifying states or local jurisdictions to pilot Envision Product

Consumer Access Pilot Overview

- Consumers typically have to travel to provider’s office to obtain immunization records for entry to schools, childcare, camps in each state
- State Immunization Information System (IIS) consolidates reports from healthcare providers statewide
- An “official” record, with state-specific format and content, but not directly accessible by consumers
Pilot Overview – MyIR

- Web-based, IIS-agnostic, bi-directional application using current HL7 standards
- Free, on-demand, access to state-specific official records, full history, and forecast
  - Aggregates all immunizations administered by providers across the state
- Consumer can add dependents (i.e. children, foster children, etc.) to their account
- Piloted in 2014 with Alaska*, Arizona, Louisiana, and West Virginia

MyIR Metrics – March 2016

<table>
<thead>
<tr>
<th></th>
<th>All States</th>
<th>AK*</th>
<th>AZ</th>
<th>LA</th>
<th>WA</th>
<th>WV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Provider Sites (#)</td>
<td>139</td>
<td>4</td>
<td>19</td>
<td>101</td>
<td>3</td>
<td>27</td>
</tr>
<tr>
<td>Overall Consumer Registration (Provider- and Patient-Initiated Workflows)</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Total Number of Consumers Encountering MyIR</td>
<td>9168</td>
<td>125</td>
<td>796</td>
<td>4444</td>
<td>1718</td>
<td>2085</td>
</tr>
<tr>
<td>Number of Fully-Activated Consumers</td>
<td>1996</td>
<td>32</td>
<td>74</td>
<td>633</td>
<td>798</td>
<td>459</td>
</tr>
<tr>
<td>Registration Completion Rate</td>
<td>21.8%</td>
<td>25.6%</td>
<td>9.3%</td>
<td>14.2%</td>
<td>46.4%</td>
<td>22.0%</td>
</tr>
<tr>
<td>Record Pulls **</td>
<td>38821</td>
<td>653</td>
<td>2864</td>
<td>13688</td>
<td>8726</td>
<td>12890</td>
</tr>
</tbody>
</table>

*Alaska left the pilot in September 2015
** Record pulls are defined as the number of unique times a consumer or provider views a record through MyIR.
Traditional User Registration

- Online consumer or provider-initiated registration
- Initial in-person identity-proofing by a participating healthcare provider
- Cohorted family account
  - Dependents must also be identity-proofed by a participating healthcare provider.

Consumer Experience

Registration Process:
- Majority agreed that the registration process is fast, easy, and convenient.
- 79% agreed that they would recommend MyIR to their friends

Functions Used:
- 84% of registered Consumers accessed MyIR
- 40% reported MyIR indicated that a vaccine was needed
Actions Taken by Consumers After Learning a Vaccine was Needed

- Called Doctor to see if vaccine was needed, 14.3%
- Called Doctor to report vaccine had been received, 3.6%
- Scheduled a visit with Doctor, 35.7%
- Waiting to discuss with Doctor at next visit, 17.9%
- Have not taken any action yet, 28.6%

Positive Health Seeking Behavior
54% of Consumers who learned they needed a vaccine contacted their Doctor.

Registration Challenges

Provider-Initiated Registration Process
- Consumer forgot to go online and complete steps (27%)
- Consumer forgot/lost PIN (22%)
- Consumer didn’t have time to complete (17%)

Consumer-Initiated Registration Process
- Consumer didn’t know had to go to provider office to complete registration (37%)
- Consumer is waiting until next scheduled visit to complete registration (23%)
- Consumer is not willing to schedule a visit just to complete registration (19%)
Provider Attitudes towards MyIR Registration Process (Online survey results)

Majority agreed that registration process is fast and easy

BUT

33% reported the process was disruptive to their work flow

Response to Registration Challenges

- Implementing new online registration workflow in March 2016
  - Eliminates need to visit provider for identity-proofing
  - Leveraging cell phones for authentication – transmitting an access code through text message or autodial
New Marketing Initiatives
Pilot Ad Campaign in Seattle-Metro Area

- Targeting parents during **back-to-school** season
- **Digital** focus – one of the most wired markets in the country
  - Seattle’s Child
  - Parent Map
  - Volunteer Spot
- Reaching out to neighborhood, parent and physician bloggers for digital advertising opportunities
- Brochure and poster distribution in Seattle metro and all pilot states.
Other NPRMs and RFIs - Medicare Access and CHIP Reauthorization Act of 2015 (MACRA)

- NPRM: Medicare Program; Merit-Based Incentive Payment System (MIPS) and Alternative Payment Model (APM) Incentive Under the Physician Fee Schedule, and Criteria for Physician-Focused Payment Models
  - [http://federalregister.gov/a/2016-10032](http://federalregister.gov/a/2016-10032)
- Medicare Access and CHIP Reauthorization Act of 2015; Request for Information Regarding Assessing Interoperability for MACRA
  - An RFI looking for comments on assessing interoperability

Wrapping up

- Questions and answers
- Resources
  - [http://www.cdc.gov/ehrmeaningfuluse/](http://www.cdc.gov/ehrmeaningfuluse/)
  - Ongoing webinars of Public Health Interest
  - Recordings and presentations that cover topics presented to day in further detail
    - Joint Public Health Forum and CDC Nationwide Webinar
    - Public Health - Electronic Health Records R) Vendors Collaboration Initiative
    - Community of Practice (CoP) for Leveraging Federal Financial Participation (FFP) for Medicaid Health Information Technology (HIT) Activities
  - Details on the Meaningful Use (MU) Public Health (PH) Reporting Requirements Task Force
- For help - Meaningful Use Public Health Technical Assistance Team at [meaningfuluse@cdc.gov](mailto:meaningfuluse@cdc.gov)
- And I can be found at: daniel.chaput@hhs.gov