



# Meaningful Use Overview

## Public Health Objective and Measures

# What is Meaningful Use?

**The American Recovery and Reinvestment Act of 2009 (Recovery Act) authorizes the Centers for Medicare & Medicaid Services (CMS) to award incentive payments to eligible professionals who demonstrate Meaningful Use of a certified electronic health record (EHR).**

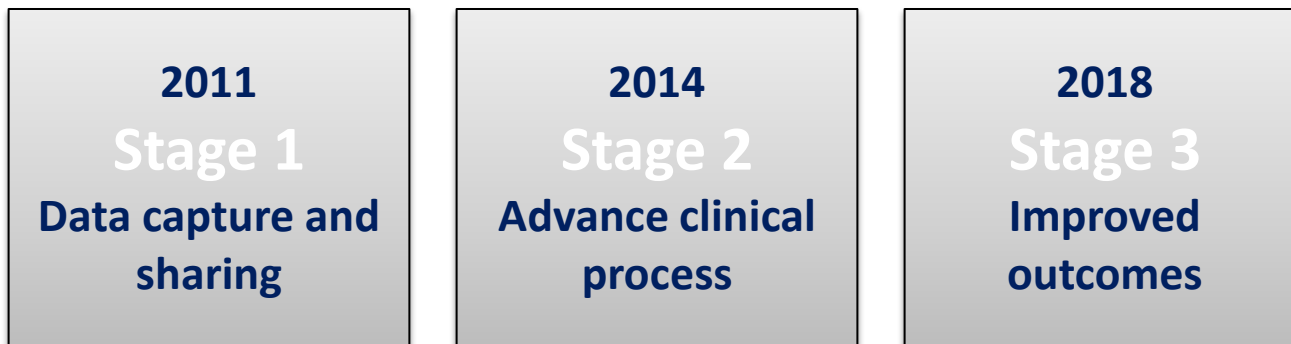
# What is Meaningful Use?

Meaningful use is using certified electronic health record (EHR) technology to:

- Improve quality, safety, efficiency, and health disparities
- Engage patients and family
- Improve care coordination, and population and public health
- Maintain privacy and security of patient health information

# Stages of Meaningful Use

Beginning in 2011, the Medicare and Medicaid Electronic Health Record (EHR) Incentive Programs were established to encourage eligible professionals and eligible hospitals to adopt, implement, upgrade (AIU), and demonstrate meaningful use of certified EHR technology.



2017 is the final year for Medicare  
2021 is the final year for Medicaid

# Meaningful Use Objectives

**Meaningful Use sets specific objectives that eligible professionals (EPs) and eligible hospitals (EHs) must achieve to qualify for the Centers for Medicare & Medicaid Services (CMS) Incentive Programs.**

# Meaningful Use Objectives

**There are 10 objectives for EPs including one consolidated public health reporting objective, and 9 objectives for EHs and CAHs including one consolidated public health reporting objective.**

# Public Health Reporting for EPs

## Objective 10

**All EPs must meet 2 measures in 2016 and 2017:**

- **Measure Option 1 – Immunization Registry Reporting**
- **Measure Option 2 – Syndromic Surveillance Reporting**
- **Measure Option 3 – Specialized Registry Reporting (Cancer Case Reporting)**

# Public Health Reporting for EHs and CAHs

## Objective 9

**All EHs and CAHs must meet 3 measures in 2016 and 2017:**

- **Measure Option 1 – Immunization Registry Reporting**
- **Measure Option 2 – Syndromic Surveillance Reporting**
- **Measure Option 3 – Specialized Registry Reporting**
- **Measure Option 4 – Electronic Laboratory Reporting**



# TDH Declaration of Readiness

As of July 1<sup>st</sup> 2017, Tennessee is participating in the following Public Health Objectives for Meaningful Use

Stage	Eligible Hospitals	Eligible Professionals
<b>Stage 1</b>	<ul style="list-style-type: none"><li>• Immunization Registry</li><li>• Electronic Laboratory Reporting</li></ul>	<ul style="list-style-type: none"><li>• Immunization Registry</li></ul>
<b>Modified Stage 2</b>	<ul style="list-style-type: none"><li>• Immunization Registry</li><li>• Electronic Laboratory Reporting</li><li>• Syndromic Surveillance w/Emergency Departments</li></ul>	<ul style="list-style-type: none"><li>• Immunization Registry</li><li>• Cancer Case Reporting</li></ul>
<b>Stage 3</b>	<ul style="list-style-type: none"><li>• Immunization Registry</li><li>• Electronic Laboratory Reporting</li><li>• Syndromic Surveillance w/Emergency Departments</li></ul>	<ul style="list-style-type: none"><li>• Immunization Registry</li></ul>

**Note: Tennessee is not currently participating in any specialized registries or clinical data registry outside of the Tennessee Cancer Registry. TDH will declare readiness for Public Health Case Reporting for January 2019 for EH's.**

# Preferred Secure Transport Methods

Below are the currently preferred transport methods for each Public Health measure. Additional mechanisms might be available for each objective and can be discussed upon establishment.

SFTP	Web Services	Direct Messaging
<ul style="list-style-type: none"><li>• Immunization Registry Unidirectional and Bi-directional Communications</li><li>• Electronic Laboratory Reporting</li><li>• Cancer Case Reporting</li></ul>	<ul style="list-style-type: none"><li>• Immunization Registry Bi-directional Communications using the TDH WSDL</li></ul>	<ul style="list-style-type: none"><li>• Cancer Case Reporting</li></ul>

# Active Engagement

**In the EHR Incentive Programs for 2015 through 2017 proposed rule 80 FR20366, CMS highlighted their intention to align with the Stage 3 proposed rule and remove the term “ongoing submission” and replace it with an "active engagement" requirement.**

# Active Engagement

Active engagement may be demonstrated by any of the following options:

- Option 1 – Complete Registration of intent to Submit Data
- Option 2 – Testing and Validation
- Option 3 – Ongoing Electronic Reporting

# Active Engagement

## Option 1 – Complete Registration of intent to Submit Data

The EP, EH or CAH registered to submit data with the PHA or, where applicable, the CDR to which the information is being submitted; registration was completed within 60 days after the start of the EHR reporting period; and the EP, eligible hospital, or CAH is awaiting an invitation from the PHA or CDR to begin testing and validation.

# Active Engagement

## Option 2 – Testing and Validation

The EP, EH or CAH is in the process of testing and validating of the electronic submission of data. Providers must respond to requests from the PHA or, where applicable, the CDR within 30 days; failure to respond twice within an EHR reporting period would result in that provider not meeting the measure.

# Active Engagement

## Option 3 – Ongoing Electronic Reporting

The EP, eligible hospital, or CAH has completed testing and validation of the electronic submission and is electronically submitting production data to the PHA or CDR.

# Trading Partner Registration (TPR)

## What is TPR?

- An application that allows potential trading partners to register their intent to electronically exchange data with TDH
- A way for potential trading partners and TDH to efficiently communicate
- A mechanism for potential trading partners to register their intent for Meaningful Use with TDH
- A tool that allows TDH to document the onboarding progress of potential trading partners



# How does TDH indicate a provider is in “Active Engagement”?

Using the Trading Partner Registration (TPR) system interface admins can assign one of the following statuses:

- In Queue – awaiting an invitation to test
- Testing – test plans, onboarding documents have been shared, and test messages have been exchanged
- On-boarding – parallel testing, transport established, and Trading Partner Agreement (TPA) sent to trading partner for signature
- Production – all testing and on-boarding requirements have been completed

# Additional Information

- EPs can receive incentive payments for adopting, implementing, or upgrading (AIU) to certified EHR technology
- Incentive Payments for EPs are up to \$63,750 over a 6 year period
- The last year that a provider can begin participation is 2016
- The Program is administered voluntarily by state Medicaid offices and territories, and will pay incentives through 2021
- If a provider qualifies for Medicare and Medicaid EHR Incentive programs, they must choose which program they want to participate in.

# Public Health Measure

## ELECTRONIC LABORATORY REPORTING (ELR)

ELR is the electronic submission of laboratory results thought to be indicative of a reportable condition, disease, or event, as described by the TDH, using interoperability standards. ELR has many benefits including improved timelines, reduction of manual data entry errors, reports that are more complete and the possible elimination of paper laboratory reporting.

**Primary Point of Contact**

**Shannon Harney, MPH**

**Surveillance Systems and Informatics Program (SSIP)**

**Director**

**[CEDS.Informatics@tn.gov](mailto:CEDS.Informatics@tn.gov)**

**<https://www.tn.gov/content/tn/health/cedep/meaningful-use-summary/laboratory-result-reporting.html>**

# On-Boarding Testing and Resources

## ELR Testing Requirements

- Messages – HL7 2.5.1 Implementation Guide: Electronic Laboratory Reporting to Public Health (US Realm), release 1 with Errata, or release 2
- Vocabulary – LOINC, SNOMED, UCUM, OID's and CLIA's (see implementation guide)
- Include in test messages – patient demographics, a TN reportable lab result, a specimen, and associated order information
- Trading Partner Agreement (TPA) –signature required when moving to production

# On-Boarding Testing and Resources

## ELR Resources for Eligible Hospitals

- **ELR Submission Factsheet -**  
[https://www.tn.gov/content/dam/tn/health/documents/ELR\\_fact\\_sheet.pdf](https://www.tn.gov/content/dam/tn/health/documents/ELR_fact_sheet.pdf)
- **ELR On-Boarding Packet –**  
[https://www.tn.gov/content/dam/tn/health/documents/MU\\_ELR\\_ONBOARDING.pdf](https://www.tn.gov/content/dam/tn/health/documents/MU_ELR_ONBOARDING.pdf)
- **Laboratory Result Reporting Webpage –**  
<https://www.tn.gov/content/tn/health/cedep/meaningful-use-summary/laboratory-result-reporting.html>
- **Reportable Disease Webpage -**  
<https://apps.health.tn.gov/ReportableDiseases>

# Public Health Measure

## SYNDROMIC SURVEILLANCE MESSAGING (SSM)

SSM is the electronic submission of standards based inpatient and ambulatory clinical care EHR data for the purpose of public health syndromic surveillance. TDH implemented a standardized and centralized SSM system for which TDH declared readiness for EH's in October 2015.

**Primary Point of Contact**

**Shannon Harney, MPH**

**Surveillance Systems and Informatics Program (SSIP)**

**Director**

**[CEDS.Informatics@tn.gov](mailto:CEDS.Informatics@tn.gov)**

# On-Boarding Testing and Resources

## SSM Testing Requirements

- Messages –CDC PHIN Messaging Guide for Syndromic Surveillance: Emergency Department and Urgent Care Data using HL7 v2.5.1, release 1.1 (August 2012) or release 2.0 (April 2015)
  - ADT messages A01, A03, A04, and A08
- Vocabulary –ICD9/10, LOINC, OID's and NPI's
- Include in test messages – facility information, limited patient demographics, patient visit information, chief complaint/reason for visit information, diagnosis and discharge information
- Trading Partner Agreement (TPA) – signature required when moving to production

# On-Boarding Testing and Resources

## SSM Resources for Eligible Hospitals

- **SSM Submission Factsheet -**  
[https://www.tn.gov/content/dam/tn/health/documents/TDH\\_SyndromicSurveillance\\_factsheet.pdf](https://www.tn.gov/content/dam/tn/health/documents/TDH_SyndromicSurveillance_factsheet.pdf)
- **SSM On-Boarding Packet –**  
[https://www.tn.gov/content/dam/tn/health/documents/MU\\_SS\\_ONBOARDING.pdf](https://www.tn.gov/content/dam/tn/health/documents/MU_SS_ONBOARDING.pdf)
- **SSM On-Boarding Checklist –**  
[https://www.tn.gov/content/dam/tn/health/documents/TDH\\_SS\\_Checklist.pdf](https://www.tn.gov/content/dam/tn/health/documents/TDH_SS_Checklist.pdf)



# Public Health Measure

## Electronic Case Reporting

ECR is the electronic submission of case reports indicating suspicion or confirmation of a reportable condition, disease, or event, as described by the TDH, from clinicians or providers using interoperability standards. TDH is currently developing its capacity to receive and consume ECR and expects to declare readiness for January 2019.

**Primary Point of Contact  
Shannon Harney, MPH**

**Surveillance Systems and Informatics Program (SSIP)  
Director**

**[CEDS.Informatics@tn.gov](mailto:CEDS.Informatics@tn.gov)**

# On-Boarding Testing and Resources

## ECR Testing Requirements

- Documents – HL7 CDA R2 Implementation Guide: Public Health Case Report, Release 2-US Realm, The Electronic Initial Case Report (eICR) (June 2016)
- Vocabulary – HL7 value sets, ISO, ICD 9/10, LOINC, SNOMED, OID's, CLIA's (see implementation guide)
- Include in test documents –patient information, provider and facility information, visit information, history of present illness information, encounter information, problem and observation information, medication information.
- Trading Partner Agreement (TPA) –signature required when moving to production

# Public Health Measure

## CANCER CASE REPORTING (CCR)

Population-based cancer surveillance is critical in North America for cancer control activities aimed at reducing the morbidity and mortality of cancer, the second leading cause of death in the U.S. Population-based public health central registries across the U.S. mandated to collect complete and timely cancer diagnostics, treatment, and outcome data from hospitals, physician offices, treatment centers, clinics, laboratories, and other sources.

**Primary Point of Contact**

**Jake Richards, MBA**

**Statistical Programmer Specialist**

**TNCancer.Registry@tn.gov**

<https://www.tn.gov/health/health-program-areas/tcr/physician-reporting-under-meaningful-use.html>

# On-Boarding Testing and Resources

## CCR Testing Requirements

- **HL7 Clinical Document Architecture Release 2.0 (CDA R2) document tested by vendor or EP using the NIST Tool (Structure Only)**
- **HL7 CDA document tested using the CDA Validation Plus Tool v3 (content of message)**
- **Trading Partner Agreement (TPA) – must be signed prior to being moved to production**

# On-Boarding Testing and Resources

## CCR Resources Eligible Professionals

- **CCR Submission Factsheet -**  
[http://tn.gov/assets/entities/health/attachments/TDH\\_Cancer\\_Reporting\\_factsheet.pdf](http://tn.gov/assets/entities/health/attachments/TDH_Cancer_Reporting_factsheet.pdf)
- **Tennessee Cancer Registry Webpage –**  
<http://tn.gov/health/section/tcr>
- **CCR Reporting Useful Links –**  
[http://tn.gov/assets/entities/health/attachments/Meaningful\\_Use\\_2\\_for\\_Web.pdf](http://tn.gov/assets/entities/health/attachments/Meaningful_Use_2_for_Web.pdf)

# Public Health Measure

## IMMUNIZATION INFORMATION SYSTEM (IIS)

The IIS is a confidential, population-based, computerized database that records all immunization doses administered by participating providers to persons residing within a geopolitical area. The Tennessee Immunization Information System (TennIIS) gives authorized immunizing providers the ability to submit and obtain comprehensive vaccine records on any patient(s).

**Primary Point of Contact**

**Nathalie Hartert, MA, PMP**

**Tennessee Immunization Information System (TennIIS)**

**Manager**

**[TennIIS.MU@tn.gov](mailto:TennIIS.MU@tn.gov)**

**<https://www.tennesseeIIS.gov/tnsiis/>**

# On-Boarding Testing and Resources

## IIS Testing Requirements

- **Messages – HL7 version 2.5.1**
  - **CDC HL7 version 2.5.1 Implementation Guide for Immunizations Messaging release 1.5, 10/01/2014 (CDC IG) and Addendum (July 2015)**
- **Bi-directional – Query for vaccination record messaging is available(QBP/RSP)**
- **Unidirectional – update only messaging is also available (VXU)**

# On-Boarding Testing and Resources

## IIS Testing Requirements (continued)

- **Trading Partner Agreement (TPA):**  
must be signed prior to being moved to production
- **Test plans are created for each potential trading partner**



# On-Boarding Testing and Resources

## IIS Resources for Eligible Hospitals and Eligible Professionals

- Tennessee Immunization Information System (TennIIS)– <https://www.tennesseeiis.gov/tnsiis/>
- TennIIS On-Boarding Checklist and Submission Factsheet - [https://www.tn.gov/content/dam/tn/health/documents/TennIIS\\_EDE\\_Fact\\_Sheet\\_and\\_On-boarding\\_Checklist.pdf](https://www.tn.gov/content/dam/tn/health/documents/TennIIS_EDE_Fact_Sheet_and_On-boarding_Checklist.pdf)

# Contact Information

## TDH Public Health Objectives

- **Electronic Lab Reporting (ELR)**
  - [CEDS.Informatics@tn.gov](mailto:CEDS.Informatics@tn.gov)
  - <https://www.tn.gov/health/cedep/meaningful-use-summary/laboratory-result-reporting.html>
  
- **Syndromic Surveillance Messaging (SSM)**
  - [CEDS.Informatics@tn.gov](mailto:CEDS.Informatics@tn.gov)
  
- **Cancer Case Reporting (CCR)**
  - [TNcancer.Registry@tn.gov](mailto:TNcancer.Registry@tn.gov)
  - <http://tn.gov/health/section/tcr>
  
- **Tennessee Immunization Information System (TennIIS)**
  - [TennIIS.MU@tn.gov](mailto:TennIIS.MU@tn.gov)
  - <https://www.tennesseeIIS.gov/tnsiis/>

# Contact Information

## Who to Contact for Help

If you have questions about the Public Health Objectives /Measures or the Trading Partner Registration (TPR) system:

- [MU.Health@tn.gov](mailto:MU.Health@tn.gov)
- 615-253-8945

If you are unable to log in to TPR, contact:

- [Apps.Support@tn.gov](mailto:Apps.Support@tn.gov)
- 629-888-5870 or 888-890-8183

# MU Contact Information

## Questions or Need Help

- Medicaid EHR Incentive Program questions – [TennCare.EHRIncentive@tn.gov](mailto:TennCare.EHRIncentive@tn.gov)
- Medicaid Meaningful Use (MU) questions – [EHRMeaningfuluse.TennCare@tn.gov](mailto:EHRMeaningfuluse.TennCare@tn.gov)
- Centers Medicare & Medicaid Services – [EHRinquires@cms.hhs.gov](mailto:EHRinquires@cms.hhs.gov)

# MU Useful Links

- **CMS EHR Incentive Program overview -**  
<https://www.cms.gov/Regulations-and-Guidance/Legislation/EHRIncentivePrograms/index.html?redirect=/EHRIncentivePrograms/>
- **2016 Program Requirements -**  
<https://www.cms.gov/Regulations-and-Guidance/Legislation/EHRIncentivePrograms/2016ProgramRequirements.html>
- **Modified stage 2 and stage 3 overview -**  
[http://www.cdc.gov/ehrmeaningfuluse/docs/cms\\_stage\\_3\\_mu\\_overview\\_2015\\_2017.pdf](http://www.cdc.gov/ehrmeaningfuluse/docs/cms_stage_3_mu_overview_2015_2017.pdf)

# MU Useful Links

- **CDC Meaningful Use -**  
<http://www.cdc.gov/ehrmeaningfuluse/>
- **TennCare MU Overview -**  
<https://www.tn.gov/tenncare/meaningful-use-overview.html>
- **Trading Partner Registration (TPR) system -**  
<https://apps.tn.gov/tpr/>

# QUESTIONS

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