

CMS ELECTRONIC HEALTH RECORD (EHR) INCENTIVE PROGRAM ELIGIBLE HOSPITALS STAGE 2 PUBLIC USE FILE (PUF) DATA DICTIONARY AND CODEBOOK

This is a provider-level file with the following variables. See the General Documentation for an overview of file contents, data source, and analytic utility.

NPI

This variable indicates the National Provider Identifier (NPI) for the EH.

Program Year

This variable contains the year of attestation to the Medicare EHR Program.

Payment Year

This variable contains the number of year of attestation to the Medicare EHR Program.

Attestation Success Date

This variable contains the full date of successful attestation to the Medicare EHR Program.

CCN

This variable contains the CMS Certification Number (CCN) for the EH.

CM21

Measure Name:	Core Measure 21
Objective Title:	CPOE for Medication Orders
Objective Description:	Use computerized provider order entry (CPOE) for medication, laboratory, and radiology orders directly entered by any licensed healthcare professional who can enter orders into the medical record per state, local, and professional guidelines.
Measure Description:	More than 60 percent of medication, 30 percent of laboratory, and 30 percent of radiology orders created by authorized providers of the eligible hospital's or CAH's inpatient or emergency department (POS 21 or 23) during the EHR reporting period are recorded using CPOE.
Numerator Description:	Numerator 1 (Medication): Number of medication orders in the denominator recorded using CPOE. Numerator 2 (Radiology): Number of radiology orders in the denominator recorded using CPOE. Numerator 3 (Laboratory): Number of laboratory orders in the denominator recorded using CPOE.

Denominator Description: Denominator 1 (Medication): Number of medication orders created by the authorized providers in the eligible hospital's or CAH's inpatient or emergency department (POS 21 or 23) during the EHR reporting period.
 Denominator 2 (Radiology): Number of radiology orders created by the authorized providers in the eligible hospital's or CAH's inpatient or emergency department (POS 21 or 23) during the EHR reporting period.
 Denominator 3 (Laboratory): Number of laboratory orders created by the authorized providers in the eligible hospital's or CAH's inpatient or emergency department (POS 21 or 23) during the EHR reporting period.

These variables provide the numerator, denominator, and percentage, calculated by the numerator and denominator provided by the EH for CM21.

CM2

Measure Name: Core Measure 22
 Objective Title: Record Demographics
 Objective Description: Record all of the following demographics: preferred language, gender, race, ethnicity, date of birth, and date and preliminary cause of death in the event of mortality in the eligible hospital or CAH.
 Measure Description: More than 80 percent of all unique patients seen by the eligible hospital or CAH or admitted to the eligible hospital's or CAH's inpatient or emergency department (POS 21 or 23) have demographics recorded as structured data.
 Numerator Description: Number of patients in the denominator who have all the elements of demographics (or a specific notation if the patient declined to provide one or more elements or if recording an element is contrary to state law) recorded as structured data.
 Denominator Description: Number of unique patients admitted to an eligible hospital or CAH's inpatient or emergency department (POS 21 or 23) during the EHR report period.

These variables provide the numerator, denominator, and percentage, calculated by the numerator and denominator provided by the EH for CM22.

CM3

Measure Name: Core Measure 23
 Objective Title: Record Vital Signs
 Objective Description: Record and chart changes in the following vital signs: height/length and weight (no age limit); blood pressure (ages 3 and over); calculate and display body mass index (BMI); and plot and display growth charts for patients 0-20 years, including BMI.

Measure Description:	More than 80 percent of all unique patients admitted to the eligible hospital's or CAH's inpatient or emergency department (POS 21 or 23) during the EHR reporting period have blood pressure (for patients age 3 and over only) and/or height/length and weight (for all ages) recorded as structured data.
Numerator Description:	Number of patients in the denominator who have at least one entry of their height/length and weight (all ages) and/or blood pressure (ages 3 and over) recorded as structured data.
Denominator Description	Number of unique patients (age 3 or over for blood pressure) admitted to the eligible hospital's or CAH's inpatient or emergency department (POS 21 or 23) during the EHR reporting period.

These variables provide the numerator, denominator, and percentage, calculated by the numerator and denominator provided by the EH for CM23.

CM24

Measure Name:	Core Measure 24
Objective Title:	Record Smoking Status
Objective Description:	Record smoking status for patients 13 years or older.
Measure Description:	More than 80 percent of all unique patients 13 years or older admitted to eligible hospital's or CAH's inpatient or emergency department (POS 21 or 23) have smoking status recorded as structured data.
Exclusion Description:	An eligible hospital or CAH that sees no patients 13 years or older would be excluded from this requirement.
Numerator Description:	Number of patients in the denominator with smoking status recorded as structured data.
Denominator Description	Number of unique patients age 13 or over admitted to an eligible hospital or CAH's inpatient or emergency department (POS 21 or 23) during the EHR reporting period.

These variables provide the numerator, denominator, percentage (calculated by the numerator and denominator), and exclusions provided by the EH for CM24.

CM25

Measure Name:	Core Measure 25
Objective Title:	Clinical Decision Support Rule
Objective Description:	Use clinical decision support to improve performance on high-priority health conditions.
Measure Description:	Measure 1: Implement five clinical decision support interventions related to four or more clinical quality measures at a relevant point in patient care for the entire EHR reporting period. Measure 2: Enable and implement the functionality for drug-drug and drug-allergy interaction checks for the entire EHR reporting period. Note: This measure only requires a yes/no answer.
Numerator Description:	N/A

Denominator Description N/A

This variable provides the response (Yes/No) provided by the EH for both CM25 measures.

CM26

Measure Name: Core Measure 26
Objective Title: Clinical Lab Test Result
Objective Description: Incorporate clinical lab test results into Certified EHR Technology (CEHRT) as structured data.
Measure Description: More than 55 percent of all clinical lab tests results ordered by authorized providers of the eligible hospital or CAH for patients admitted to its inpatient or emergency department (POS 21 or 23) during the EHR reporting period whose results are either in a positive/negative affirmation or numerical format are incorporated in CEHRT as structured data.
Numerator Description: Number of lab test results which are expressed in a positive or negative affirmation or as a numeric result which are incorporated in CEHRT as structured data.
Denominator Description: Number of lab tests ordered during the EHR reporting period by the EP or by authorized providers of the eligible hospital or CAH for patients admitted to its inpatient or emergency department (POS 21 or 23) whose results are expressed in a positive or negative affirmation or as a number.

These variables provide the numerator, denominator, and percentage, calculated by the numerator and denominator provided by the EH for CM26.

CM27

Measure Name: Core Measure 27
Objective Title: Patient Lists
Objective Description: Generate lists of patients by specific conditions to use for quality improvement, reduction of disparities, research, or outreach.
Measure Description: Generate at least one report listing patients of the eligible hospital or CAH with a specific condition.
Note: This measure only requires a yes/no answer.
Numerator Description: N/A
Denominator Description: N/A

This variable provides the response (Yes/No) provided by the EH for CM27.

CM28

Measure Name: Core Measure 28
Objective Title: View Online, Download, and Transmit Information About a Hospital Admission
Objective Description: Provide patients the ability to view online, download, and transmit information about a hospital admission.

Measure Description:	<p>Measure 1: More than 50 percent of all unique patients discharged from the inpatient or emergency departments of the eligible hospital or CAH (POS 21 or 23) during the reporting period have their information available online, with the ability to view, download, and transmit to a third party information about a hospital admission, within 36 hours of discharge.</p> <p>Measure 2: More than 5 percent of all patients (or their authorized representatives) who are discharged from the inpatient or emergency department (POS 21 or 23) of an eligible hospital or CAH during the reporting period view, download or transmit to a third party their information.</p>
Exclusion Description:	An eligible hospital or CAH that is located in a county that does not have 50 percent or more of its housing units with 3Mbps broadband availability according to the latest information available from the FCC on the first day of the EHR reporting period would be excluded from the second measure.
Numerator Description:	<p>Numerator 1: Number of patients in the denominator whose information is available online, with the ability to view, download, and transmit to a third party information about a hospital admission, within 36 hours of discharge.</p> <p>Numerator 2: Number of unique patients (or their authorized representatives) in the denominator who have viewed online, downloaded, or transmitted to a third party the discharge information provided by the eligible hospital or CAH.</p>
Denominator Description	<p>Denominator 1: Number of unique patients discharged from an eligible hospital's or CAH's inpatient or emergency department (POS 21 or 23) during the EHR reporting period.</p> <p>Denominator 2: Number of unique patients discharged from an eligible hospital's or CAH's inpatient or emergency department (POS 21 or 23) during the EHR reporting period.</p>

These variables provide the numerator, denominator, percentage (calculated by the numerator and denominator), and exclusions provided by the EH for CM28.

CM29

Measure Name:	Core Measure 29
Objective Title:	Patient-Specific Education Resources
Objective Description:	Use clinically relevant information from CEHRT to identify patient-specific education resources and provide those resources to the patient.
Measure Description:	More than 10 percent of all unique patients admitted to the eligible hospital's or CAH's inpatient or emergency departments (POS 21 or 23) are provided patient-specific education resources identified by the CEHRT.
Numerator Description:	Number of patients in the denominator who are subsequently provided patient-specific education resources identified by the CEHRT.

Denominator Description Number of unique patients admitted to the eligible hospital's or CAH's inpatient or emergency departments (POS 21 or 23) during the EHR reporting period.

These variables provide the numerator, denominator, and percentage, calculated by the numerator and denominator, as well as the exclusion, provided by the EH for CM29.

CM30

Measure Name: Core Measure 30
Objective Title: Medication Reconciliation
Objective Description: The eligible hospital or CAH who receives a patient from another setting of care or provider of care or believes an encounter is relevant should perform medication reconciliation.
Measure Description: The eligible hospital or CAH performs medication reconciliation for more than 50 percent of transitions of care in which the patient is transitioned into the eligible hospital's or CAH's inpatient or emergency department (POS 21 or 23).
Numerator Description: Number of transitions of care in the denominator where medication reconciliation was performed.
Denominator Description Number of transitions of care during the EHR reporting period for which the eligible hospital's or CAH's inpatient or emergency department (POS 21 or 23) was the receiving party of the transition.

These variables provide the numerator, denominator, and percentage, calculated by the numerator and denominator, as well as the exclusion, provided by the EH for CM30.

CM31

Measure Name: Core Measure 31
Objective Title: Transition of Care Summary
Objective Description: The eligible hospital or CAH who transitions their patient to another setting of care or provider of care or refers their patient to another provider of care provides a summary care record for each transition of care or referral.

Measure Description:	<p>Measure 1: The eligible hospital or CAH that transitions or refers their patient to another setting of care or provider of care provides a summary of care record for more than 50 percent of transitions of care and referrals.</p> <p>Measure 2: The eligible hospital or CAH that transitions or refers their patient to another setting of care or provider of care provides a summary of care record for more than 10 percent of such transitions and referrals either (a) electronically transmitted using CEHRT to a recipient or (b) where the recipient receives the summary of care record via exchange facilitated by an organization that is a NwHIN Exchange participant or in a manner that is consistent with the governance mechanism ONC establishes for the nationwide health information network.</p> <p>Measure 3: The eligible hospital or CAH conducts one or more successful electronic exchanges of a summary of care document, which is counted in "measure 2" (for eligible hospitals and CAHs the measure at §495.6(l)(11)(ii)(B)) with a recipient who has EHR technology that was designed by a different EHR technology developer than the sender's EHR technology certified to 45 CFR 170.314(b)(2) OR conducts one or more successful tests with the CMS designated test EHR during the EHR reporting period.</p> <p>Note: Measure 3 only requires a yes/no answer.</p>
Numerator Description:	<p>Numerator 1: Number of transitions of care and referrals in the denominator where a summary of care record was provided.</p> <p>Numerator 2: Number of transitions of care and referrals in the denominator where a summary of care record was a) electronically transmitted using CEHRT to a recipient or b) where the recipient receives the summary of care record via exchange facilitated by an organization that is a NwHIN Exchange participant or in a manner that is consistent with the governance mechanism ONC establishes for the nationwide health information network. The organization can be a third-party or the sender's own organization.</p> <p>Numerator 3: N/A</p>
Denominator Description	<p>Denominator 1: Number of transitions of care and referrals during the EHR reporting period for which the eligible hospital's or CAH's inpatient or emergency department (POS 21 or 23) was the transferring or referring provider.</p> <p>Denominator 2: Number of transitions of care and referrals during the EHR reporting period for which the eligible hospital's or CAH's inpatient or emergency department (POS 21 or 23) was the transferring or referring provider.</p> <p>Denominator 3: N/A</p>

These variables provide the numerator, denominator, and percentage, calculated by the numerator and denominator provided by the EH for CM31.

CM32

Measure Name: Core Measure 32
Objective Title: Immunization Registries Data Submission
Objective Description: Capability to submit electronic data to immunization registries or immunization information systems except where prohibited, and in accordance with applicable law and practice.
Measure Description: Successful ongoing submission of electronic immunization data from CEHRT to an immunization registry or immunization information system for the entire EHR reporting period.
Exclusion Description: Exclusion 1: The eligible hospital or CAH does not administer any of the 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.
Exclusion 2: The eligible hospital or CAH operates in a jurisdiction for which no immunization registry or immunization information system is capable of accepting the specific standards required for CEHRT at the start of their EHR reporting period.
Exclusion 3: The eligible hospital or CAH operates in a jurisdiction where no immunization registry or immunization information system provides information timely on capability to receive immunization data.
Exclusion 4: The eligible hospital or CAH operates in a jurisdiction for which no immunization registry or immunization information system that is capable of accepting the specific standards required by CEHRT at the start of their EHR reporting period can enroll additional eligible hospitals or CAHs.
Note: This measure only requires a yes/no answer.
Numerator Description: N/A
Denominator Description: N/A

This variable provides the response (Yes/No) and exclusions (if any) provided by the EH for CM32.

CM33

Measure Name: Core Measure 33
Objective Title: Reportable Lab Results to Public Health Agencies
Objective Description: Capability to submit electronic reportable laboratory results to public health agencies, except where prohibited, and in accordance with applicable law and practice.
Measure Description: Successful ongoing submission of electronic reportable laboratory results from CEHRT to a public health agency for the entire EHR reporting period.

Exclusion Description: Exclusion 1: Any eligible hospital or CAH that operates in a jurisdiction for which no public health agency is capable of receiving electronic reportable laboratory results in the specific standards required for CEHRT at the start of their EHR reporting period.
 Exclusion 2: Any eligible hospital or CAH that operates in a jurisdiction for which no public health agency provides information timely on capability to receive electronic reportable laboratory results.
 Exclusion 3: Any eligible hospital or CAH that operates in a jurisdiction for which no public health agency that is capable of accepting the specific standards required by CEHRT at the start of their EHR reporting period can enroll additional eligible hospitals or CAHs.
 Note: This measure only requires a yes/no answer.

Numerator Description: N/A
 Denominator Description: N/A

This variable provides the response (Yes/No) and exclusions (if any) provided by the EH for CM33.

CM34

Measure Name: Core Measure 34
 Objective Title: Syndromic Surveillance Data Submission
 Objective Description: Capability to submit electronic syndromic surveillance data to public health agencies, except where prohibited, and in accordance with applicable law and practice.

Measure Description: Successful ongoing submission of electronic syndromic surveillance data from CEHRT to a public health agency for the entire EHR reporting period.

Exclusion Description: Exclusion 1: The eligible hospital or CAH does not have an emergency or urgent care department.
 Exclusion 2: The eligible hospital or CAH operates in a jurisdiction for which no public health agency is capable of receiving electronic syndromic surveillance data in the specific standards required by CEHRT at the start of their EHR reporting period.
 Exclusion 3: The eligible hospital or CAH operates in a jurisdiction where no public health agency provides information timely on capability to receive syndromic surveillance data.
 Exclusion 4: The eligible hospital or CAH Operates in a jurisdiction for which no public health agency that is capable of accepting the specific standards required by CEHRT at the start of their EHR reporting period can enroll additional eligible hospitals or CAHs.
 Note: This measure only requires a yes/no answer.

Numerator Description: N/A
 Denominator Description: N/A

This variable provides the response (Yes/No) and exclusions (if any) provided by the EH for CM34.

CM35

Measure Name:	Core Measure 35
Objective Title:	Protect Electronic Health Information
Objective Description:	Protect electronic health information created or maintained by the CEHRT through the implementation of appropriate technical capabilities.
Measure Description:	Conduct or review a security risk analysis in accordance with the requirements under 45 CFR 164.308(a)(1), including addressing the encryption/security of data stored in CEHRT in accordance with requirements under 45 CFR 164.312 (a)(2)(iv) and 45 CFR 164.306(d)(3), and implement security updates as necessary and correct identified security deficiencies as part of the provider's risk management process for eligible hospitals. Note: This measure only requires a yes/no answer.
Numerator Description:	N/A
Denominator Description	N/A

This variable provides the response (Yes/No) provided by the EH for CM35.

CM36

Measure Name:	Core Measure 36
Objective Title:	Electronic Medication Administration Record
Objective Description:	Automatically track medications from order to administration using assistive technologies in conjunction with an electronic medication administration record (eMAR).
Measure Description:	More than 10 percent of medication orders created by authorized providers of the eligible hospital's or CAH's inpatient or emergency department (POS 21 or 23) during the EHR reporting period for which all doses are tracked using eMAR.
Exclusion Description:	Any eligible hospital or CAH with an average daily inpatient census of fewer than 10 patients.
Numerator Description:	Number of orders in the denominator for which all doses are tracked using eMAR.
Denominator Description	Number of medication orders created by authorized providers in the eligible hospital's or CAH's inpatient or emergency department (POS 21 or 23) during the EHR reporting period.

These variables provide the numerator, denominator, percentage (calculated by the numerator and denominator), and exclusions provided by the EH for CM36.

MM21

Measure Name:	Menu Measure 21
Objective Title:	Advance Directives

Objective Description:	Record whether a patient 65 years old or older has an advance directive.
Measure Description:	More than 50 percent of all unique patients 65 years old or older admitted to the eligible hospital's or CAH's inpatient department (POS 21) during the EHR reporting period have an indication of an advance directive status recorded as structured data.
Exclusion Description:	An eligible hospital or CAH that admits no patients age 65 years old or older during the EHR reporting period.
Numerator Description:	Number of patients in the denominator who have an indication of an advance directive status entered using structured data.
Denominator Description	Number of unique patients age 65 or older admitted to an eligible hospital's or CAH's inpatient department (POS 21) during the EHR reporting period.

These variables provide the numerator, denominator, percentage (calculated by the numerator and denominator), and exclusions provided by the EH for MM21.

MM22

Measure Name:	Menu Measure 22
Objective Title:	Imaging Results
Objective Description:	Imaging results consisting of the image itself and any explanation or other accompanying information are accessible through CEHRT.
Measure Description:	More than 10 percent of all tests whose result is one or more images ordered by an authorized provider of the eligible hospital or CAH for patients admitted to its inpatient or emergency department (POS 21 or 23) during the EHR reporting period are accessible through CEHRT.
Numerator Description:	Number of results in the denominator that are accessible through CEHRT.
Denominator Description	Number of tests whose result is one or more images ordered by an authorized provider on behalf of the eligible hospital or CAH for patients admitted to its inpatient or emergency department (POS 21 and 23) during the EHR reporting period.

These variables provide the numerator, denominator, and percentage, calculated by the numerator and denominator provided by the EH for MM22.

MM23

Measure Name:	Menu Measure 23
Objective Title:	Record Patient Family Health History
Objective Description:	Record patient family health history as structured data.
Measure Description:	More than 20 percent of all unique patients admitted to the eligible hospital or CAH's inpatient or emergency department (POS 21 or 23) during the EHR reporting period have a structured data entry for one or more first-degree relatives.

Numerator Description: Number of patients in the denominator with a structured data entry for one or more first-degree relatives.
Denominator Description: Number of unique patients admitted to the eligible hospital's or CAH's inpatient or emergency departments (POS 21 or 23) during the EHR reporting period.

These variables provide the numerator, denominator, and percentage, calculated by the numerator and denominator provided by the EH for MM23.

MM24

Measure Name: Menu Measure 24
Objective Title: e-Prescribing
Objective Description: Generate and transmit permissible discharge prescriptions electronically (eRx).
Measure Description: More than 10 percent of hospital discharge medication orders for permissible prescriptions (for new, changed, and refilled prescriptions) are queried for a drug formulary and transmitted electronically using CEHRT.
Exclusion Description: Does not have an internal pharmacy that can accept electronic prescriptions and is not located within 10 miles of any pharmacy that accepts electronic prescriptions at the start of their EHR reporting period.
Numerator Description: Number of prescriptions in the denominator generated, queried for a drug formulary and transmitted electronically.
Denominator Description: Number of new, changed, or refill prescriptions written for drugs requiring a prescription in order to be dispensed other than controlled substances for patients discharged during the EHR reporting period.

These variables provide the numerator, denominator, percentage (calculated by the numerator and denominator), and exclusions provided by the EH for MM24.

MM25

Measure Name: Menu Measure 25
Objective Title: Record Electronic Notes
Objective Description: Record electronic notes in patient records.
Measure Description: Enter at least one electronic progress note created, edited and signed by an authorized provider of the eligible hospital's or CAH's inpatient or emergency department (POS 21 or 23) for more than 30 percent of unique patients admitted to the eligible hospital or CAH's inpatient or emergency department during the EHR reporting period. The text of the electronic note must be text searchable and may contain drawings and other content.

Numerator Description:	Number of unique patients in the denominator who have at least one electronic progress note from an authorized provider of the eligible hospital's or CAH's inpatient or emergency department (POS 21 or 23) recorded as text searchable data.
Denominator Description	Number of unique patients admitted to an eligible hospital or CAH's inpatient or emergency department (POS 21 or 23) during the EHR reporting period.

These variables provide the numerator, denominator, and percentage, calculated by the numerator and denominator provided by the EH for MM25.

MM26

Measure Name:	Menu Measure 26
Objective Title:	Structured Electronic Lab Results for Ambulatory Providers
Objective Description:	Provide structured electronic lab results to ambulatory providers.
Measure Description:	Measure: Hospital labs send structured electronic clinical lab results to the ordering provider for more than 20 percent of electronic lab orders received. Alternate Measure: Hospital labs send structured electronic clinical lab results to the ordering provider for more than 20 percent of lab orders received.
Numerator Description:	Numerator: Number of structured clinical lab results sent to the ordering provider. Alternate Numerator: Number of structured clinical lab results sent to the ordering provider.
Denominator Description	Denominator: Number of electronic lab orders received. Alternate Denominator: Number of lab orders received.

These variables provide the numerator, denominator, and percentage, calculated by the numerator and denominator provided by the EH for MM26.

EHR Certification Number

This variable contains the EHR Certification Number of the EH to the Medicare EHR Program.