

## CMS Meaningful Use Objectives with CMS Definitions and Standards References

CODE C=CORE M=Menu	NAME	OBJECTIVE	CMS DEFINITION & MEASUREMENT GUIDELINES FOR OBJECTIVES	CERTIFICATION CRITERIA & STANDARDS REFERENCES
C1	CPOE for medications	Use CPOE for medication orders directly entered by any licensed healthcare professional who can enter orders into the medical record per state, local and professional guidelines	<a href="http://www.cms.gov/EHRIncentivePrograms/Downloads/1HC-CPOEforMedicationOrders.pdf">http://www.cms.gov/EHRIncentivePrograms/Downloads/1HC-CPOEforMedicationOrders.pdf</a>	§170.304 (a) Computerized provider order entry updated 8/13/2010 <a href="http://healthcare.nist.gov/docs/170.304.a_CPOE_v1.0.pdf">http://healthcare.nist.gov/docs/170.304.a_CPOE_v1.0.pdf</a>
C2	Drug-drug/drug-allergy checks	Implement drug-drug and drug-allergy interaction checks	<a href="http://www.cms.gov/EHRIncentivePrograms/Downloads/2HC-DrugInteractionChecks.pdf">http://www.cms.gov/EHRIncentivePrograms/Downloads/2HC-DrugInteractionChecks.pdf</a>	§170.302 (a) Drug-drug, drug-allergy interaction checks updated 8/13/2010 <a href="http://healthcare.nist.gov/docs/170.302.a_DrugDrugDrugAllergy_v1.0.pdf">http://healthcare.nist.gov/docs/170.302.a_DrugDrugDrugAllergy_v1.0.pdf</a>
C3	Maintain Problem List	Maintain an up-to-date problem list of current and active diagnoses	<a href="http://www.cms.gov/EHRIncentivePrograms/Downloads/3HC-MaintainProblemList.pdf">http://www.cms.gov/EHRIncentivePrograms/Downloads/3HC-MaintainProblemList.pdf</a>	§170.302 © Maintain up-to-date problem list updated 8/13/2010 <a href="http://healthcare.nist.gov/docs/170.302.c_problemlist_v1.0.pdf">http://healthcare.nist.gov/docs/170.302.c_problemlist_v1.0.pdf</a> . Standards: Requires use of either ICD-9-CM or SNOMED.
C4	Active Medication List	Maintain active medication list	<a href="http://www.cms.gov/EHRIncentivePrograms/Downloads/4HC-ActiveMedicationList.pdf">http://www.cms.gov/EHRIncentivePrograms/Downloads/4HC-ActiveMedicationList.pdf</a>	§170.302 (d) Maintain active medication list updated 8/13/2010 <a href="http://healthcare.nist.gov/docs/170.302.d_medicationlist_v1.0.pdf">http://healthcare.nist.gov/docs/170.302.d_medicationlist_v1.0.pdf</a>
C5	Medication Allergy List	Maintain active medication allergy list	<a href="http://www.cms.gov/EHRIncentivePrograms/Downloads/5HC-MedicationAllergyList.pdf">http://www.cms.gov/EHRIncentivePrograms/Downloads/5HC-MedicationAllergyList.pdf</a>	§170.302 (e) Maintain active medication allergy list updated 8/13/2010 <a href="http://healthcare.nist.gov/docs/170.302.e_allergylist_v1.0.pdf">http://healthcare.nist.gov/docs/170.302.e_allergylist_v1.0.pdf</a>
C6	Record Demographics	Record demographics (preferred language, gender, race, ethnicity, date of birth, date and preliminary cause of death in the event of mortality in the eligible hospital or CAH)	<a href="http://www.cms.gov/EHRIncentivePrograms/Downloads/6HC-RecordDemographics.pdf">http://www.cms.gov/EHRIncentivePrograms/Downloads/6HC-RecordDemographics.pdf</a>	§170.304 (c) Record demographics updated 8/13/2010 <a href="http://healthcare.nist.gov/docs/170.304.c_RecordDemographicsAmb_v1.0.pdf">http://healthcare.nist.gov/docs/170.304.c_RecordDemographicsAmb_v1.0.pdf</a> Also Requires use of OMB Race & Ethnicity Codes available at: <a href="http://www.whitehouse.gov/omb/infoereg_statpolicy/#dr">http://www.whitehouse.gov/omb/infoereg_statpolicy/#dr</a>
C7	Record and chart changes in vital signs	Record and chart changes in vital signs (height, weight, blood pressure, calculate and display BMI, plot and display growth charts for children 2-20 ears, including BMI)	<a href="http://www.cms.gov/EHRIncentivePrograms/Downloads/7HC-RecordVitalSigns.pdf">http://www.cms.gov/EHRIncentivePrograms/Downloads/7HC-RecordVitalSigns.pdf</a>	§170.302 (f)(1) Vital signs updated 8/13/2010 <a href="http://healthcare.nist.gov/docs/170.302.f.1_vitalsigns_v1.0.pdf">http://healthcare.nist.gov/docs/170.302.f.1_vitalsigns_v1.0.pdf</a>
C8	Record smoking status	Record smoking status for patients 13 years old or older	<a href="http://www.cms.gov/EHRIncentivePrograms/Downloads/8HC-RecordSmokingStatus.pdf">http://www.cms.gov/EHRIncentivePrograms/Downloads/8HC-RecordSmokingStatus.pdf</a>	§170.302 (g) Smoking status updated 8/13/2010 <a href="http://healthcare.nist.gov/docs/170.302.g_smokingstatus_v1.0.pdf">http://healthcare.nist.gov/docs/170.302.g_smokingstatus_v1.0.pdf</a> Standards: Requires use of specific values for smoking status.

Notes: CPOE = Computerized Provider Order Entry; CAH = Critical Access Hospital; EHR = Electronic Health Record

## CMS Meaningful Use Objectives with CMS Definitions and Standards References

CODE C=CORE M=Menu	NAME	OBJECTIVE	CMS DEFINITION & MEASUREMENT GUIDELINES FOR OBJECTIVES	CERTIFICATION CRITERIA & STANDARDS REFERENCES
C9	Clinical Quality Measure	Report hospital clinical quality measures to CMS or the States	<a href="http://www.cms.gov/EHRIncentivePrograms/Downloads/9HC-ClinicalQualityMeasures.pdf">http://www.cms.gov/EHRIncentivePrograms/Downloads/9HC-ClinicalQualityMeasures.pdf</a>	§170.306 (i) Calculate and submit clinical quality measures updated 8/13/2010 <a href="http://healthcare.nist.gov/docs/170.306.i_CalcSubmitClinQualityMeasures_v1.0.pdf">http://healthcare.nist.gov/docs/170.306.i_CalcSubmitClinQualityMeasures_v1.0.pdf</a>
C10	Clinical Decision Support	Implement one clinical decision support rule related to a high priority hospital condition along with the ability to track compliance with that rule	<a href="http://www.cms.gov/EHRIncentivePrograms/Downloads/10HC-ClinicalDecisionSupportRule.pdf">http://www.cms.gov/EHRIncentivePrograms/Downloads/10HC-ClinicalDecisionSupportRule.pdf</a>	Drug-drug and drug-allergy interaction alerts cannot be used for this objective. §170.306 (c) Clinical decision support updated 8/13/2010 <a href="http://healthcare.nist.gov/docs/170.306.c_ClinicalDecisionSupportIP_v1.0.pdf">http://healthcare.nist.gov/docs/170.306.c_ClinicalDecisionSupportIP_v1.0.pdf</a>
C11	Electronic copy of health info for patients	Provide patients with an electronic copy of their health information (including diagnostic test results, problem list, medication lists, medication allergies, discharge summary, procedures), upon request	<a href="http://www.cms.gov/EHRIncentivePrograms/Downloads/11HC-ElectronicCopyofHealthInformation.pdf">http://www.cms.gov/EHRIncentivePrograms/Downloads/11HC-ElectronicCopyofHealthInformation.pdf</a>	Note HIPAA Privacy rules at 45 CFR 164.524 including (c)  <a href="http://edocket.access.gpo.gov/cfr_2003/octqtr/pdf/45cfr164.524.pdf">http://edocket.access.gpo.gov/cfr_2003/octqtr/pdf/45cfr164.524.pdf</a> §170.306 (d)(1) Electronic copy of health information <a href="http://healthcare.nist.gov/docs/170.306.d.1_ElectronicCopyOfHealthInformation_v1.0.pdf">http://healthcare.nist.gov/docs/170.306.d.1_ElectronicCopyOfHealthInformation_v1.0.pdf</a> §170.304 (g) Timely access <a href="http://healthcare.nist.gov/docs/170.304.g_TimelyAccess_v1.0.pdf">http://healthcare.nist.gov/docs/170.304.g_TimelyAccess_v1.0.pdf</a> . Standards: Requires use of either CCR or CCD to format and transmit document, as well as use of specific standards for individual data elements, such as ICD-9-CM, SNOWMED-CT, LOINC, and RxNORM.
C12	Electronic copy of discharge instructions	Provide patients with an electronic copy of their discharge instructions at time of discharge, upon request	<a href="http://www.cms.gov/EHRIncentivePrograms/Downloads/12HC-ElectronicCopyofDischargeInstructions.pdf">http://www.cms.gov/EHRIncentivePrograms/Downloads/12HC-ElectronicCopyofDischargeInstructions.pdf</a>	Note HIPAA Privacy rules at 45 CFR 164.524 including (c)  <a href="http://edocket.access.gpo.gov/cfr_2003/octqtr/pdf/45cfr164.524.pdf">http://edocket.access.gpo.gov/cfr_2003/octqtr/pdf/45cfr164.524.pdf</a> §170.306 (e) Electronic copy of discharge instructions <a href="http://healthcare.nist.gov/docs/170.306.e_ElectronicCopyofDischargeInstructions_v1.0.pdf">http://healthcare.nist.gov/docs/170.306.e_ElectronicCopyofDischargeInstructions_v1.0.pdf</a>
C13	Electronic exchange key clinical information (capability)	Capability to exchange key clinical information (for example, discharge summary, procedures, problem list, medication list, medication allergies, diagnostic test results), among providers of care and patient authorized entities electronically.	<a href="http://www.cms.gov/EHRIncentivePrograms/Downloads/13HC-ElectronicExchangeofClinicalInformation.pdf">http://www.cms.gov/EHRIncentivePrograms/Downloads/13HC-ElectronicExchangeofClinicalInformation.pdf</a>	A minimum set of standard information is identified in the HIT Standards and Criteria rule at Standards for Test Procedure for §170.306 (f) Exchange Clinical Information and Summary Record Data from the EHR can be in either HL7 CCD or ASTM CCR format as selected by the Vendor <a href="http://healthcare.nist.gov/docs/170.306.f_ExchangeClinicalInfoSummaryRecordIP_v1.0.pdf">http://healthcare.nist.gov/docs/170.306.f_ExchangeClinicalInfoSummaryRecordIP_v1.0.pdf</a>

## CMS Meaningful Use Objectives with CMS Definitions and Standards References

CODE C=CORE M=Menu	NAME	OBJECTIVE	CMS DEFINITION & MEASUREMENT GUIDELINES FOR OBJECTIVES	CERTIFICATION CRITERIA & STANDARDS REFERENCES
C14	Protect electronic health information	Protect electronic health information created or maintained by the certified EHR technology through the implementation of appropriate technical capabilities	<a href="http://www.cms.gov/EHRIncentivePrograms/Downloads/14HC-ProtectElectronicHealthInformation.pdf">http://www.cms.gov/EHRIncentivePrograms/Downloads/14HC-ProtectElectronicHealthInformation.pdf</a>	Security risk analysis requirements can be found at <a href="http://edocket.access.gpo.gov/cfr_2003/octqtr/pdf/45cfr164.524.pdf">http://edocket.access.gpo.gov/cfr_2003/octqtr/pdf/45cfr164.524.pdf</a> §170.302 (o) Access control <a href="http://healthcare.nist.gov/docs/170.302.o_AccessControl_v1.0.pdf">http://healthcare.nist.gov/docs/170.302.o_AccessControl_v1.0.pdf</a> §170.302 (u) General encryption <a href="http://healthcare.nist.gov/docs/170.302.u_GeneralEncryption_v1.0.pdf">http://healthcare.nist.gov/docs/170.302.u_GeneralEncryption_v1.0.pdf</a> §170.302 (v) Encryption when exchanging electronic health information <a href="http://healthcare.nist.gov/docs/170.302.v_EncryptionHIE_v1.0.pdf">http://healthcare.nist.gov/docs/170.302.v_EncryptionHIE_v1.0.pdf</a> See additional criteria for Emergency Access, Automatic log-off, Audit log, Integrity, & authentication at <a href="http://healthcare.nist.gov/use_testing/fina">http://healthcare.nist.gov/use_testing/fina</a>
M1	Drug-formulary checks	Implement drug-formulary checks	<a href="http://www.cms.gov/EHRIncentivePrograms/Downloads/1HM-DrugFormularyChecks.pdf">http://www.cms.gov/EHRIncentivePrograms/Downloads/1HM-DrugFormularyChecks.pdf</a>	§170.302 (b) Drug formulary checks <a href="http://healthcare.nist.gov/docs/170.302.b_DrugFormularyChecks_v1.0.pdf">http://healthcare.nist.gov/docs/170.302.b_DrugFormularyChecks_v1.0.pdf</a>
M2	Record advanced directives	Record advance directives for patients 65 years old or older	<a href="http://www.cms.gov/EHRIncentivePrograms/Downloads/2HM-AdvanceDirectives.pdf">http://www.cms.gov/EHRIncentivePrograms/Downloads/2HM-AdvanceDirectives.pdf</a>	§170.306 (h) Advance directives Advance directives
M3	Incorporate structured clinical-lab data	Incorporate clinical lab-test results into certified EHR technology as structured data.	<a href="http://www.cms.gov/EHRIncentivePrograms/Downloads/3HM-ClinicalLabTestResults.pdf">http://www.cms.gov/EHRIncentivePrograms/Downloads/3HM-ClinicalLabTestResults.pdf</a>	§170.302 (h) Incorporate laboratory test results <a href="http://healthcare.nist.gov/docs/170.302.h_IncorLabTest_v1.0.pdf">http://healthcare.nist.gov/docs/170.302.h_IncorLabTest_v1.0.pdf</a> Requires Logical Observation Identifiers Names and Codes (LOINC®) version 2.27 if data is received in this format <a href="http://loinc.org/news/loinc-version-2-27-and-relma-version-3-25-available.html/?searchterm=version%202.27">http://loinc.org/news/loinc-version-2-27-and-relma-version-3-25-available.html/?searchterm=version%202.27</a>
M4	Generate patient lists by condition	Generate lists of patients by specific conditions to use for quality improvement, reduction of disparities, research or outreach	<a href="http://www.cms.gov/EHRIncentivePrograms/Downloads/4HM-PatientLists.pdf">http://www.cms.gov/EHRIncentivePrograms/Downloads/4HM-PatientLists.pdf</a>	§170.302 (i) Generate patient lists <a href="http://healthcare.nist.gov/docs/170.302.i_GeneratePatientLists_v1.0.pdf">http://healthcare.nist.gov/docs/170.302.i_GeneratePatientLists_v1.0.pdf</a>
M5	Identify patient-specific education resources	Use certified EHR technology to identify patient-specific education resources and provide those resources to the patient if appropriate	<a href="http://www.cms.gov/EHRIncentivePrograms/Downloads/5HM-Patient-SpecificEducationResources.pdf">http://www.cms.gov/EHRIncentivePrograms/Downloads/5HM-Patient-SpecificEducationResources.pdf</a>	An option for counting observation patients in the Emergency Department requires Medicare Benefit Policy Manual, Chapter 6, Section 20.6 for definition of Observation Services: <a href="http://www.cms.gov/manuals/Downloads/bp102c06.pdf">http://www.cms.gov/manuals/Downloads/bp102c06.pdf</a>

## CMS Meaningful Use Objectives with CMS Definitions and Standards References

CODE C=CORE M=Menu	NAME	OBJECTIVE	CMS DEFINITION & MEASUREMENT GUIDELINES FOR OBJECTIVES	CERTIFICATION CRITERIA & STANDARDS REFERENCES
M6	Medication reconciliation	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	<a href="http://www.cms.gov/EHRIncentivePrograms/Downloads/6HM-MedicationReconciliation.pdf">http://www.cms.gov/EHRIncentivePrograms/Downloads/6HM-MedicationReconciliation.pdf</a>	An option for counting observation patients in the Emergency Department requires Medicare Benefit Policy Manual, Chapter 6, Section 20.6 for definition of Observation Services: <a href="http://www.cms.gov/manuals/Downloads/bp102c06.pdf">http://www.cms.gov/manuals/Downloads/bp102c06.pdf</a>
M7	Transition of Care Summary	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 should provide summary of care record for each transition of care or referral	<a href="http://www.cms.gov/EHRIncentivePrograms/Downloads/7HM-TransitionofCareSummary.pdf">http://www.cms.gov/EHRIncentivePrograms/Downloads/7HM-TransitionofCareSummary.pdf</a>	§170.304 (h) Clinical summaries <a href="http://healthcare.nist.gov/docs/170.304.h_ClinicalSummaries_v1.0.pdf">http://healthcare.nist.gov/docs/170.304.h_ClinicalSummaries_v1.0.pdf</a> §170.304 (i) Exchange clinical information and patient summary record <a href="http://healthcare.nist.gov/docs/170.304.i_ExchangeClinicalInfoPatientSummaryRecordAmb_v1.0.pdf">http://healthcare.nist.gov/docs/170.304.i_ExchangeClinicalInfoPatientSummaryRecordAmb_v1.0.pdf</a> Standards: Requires use of either CCR or CCD to format and transmit document, as well as use of specific standards for individual data elements, such as ICD-9-CM, SNOWMED-CT, LOINC, and RxNORM.
M8	Submit data to immunization registries	Capability to submit electronic data to immunization registries or Immunization Information Systems and actual submission in accordance with applicable law and practice	<a href="http://www.cms.gov/EHRIncentivePrograms/Downloads/8HM-ImmunizationRegistriesDataSubmission.pdf">http://www.cms.gov/EHRIncentivePrograms/Downloads/8HM-ImmunizationRegistriesDataSubmission.pdf</a>	Transmission of immunization information must use the standards at 45 CFR 170.302(k) (HL7 2.3.1, HL7 2.5.1 and HL7 immunization standard code set)  <a href="http://healthcare.nist.gov/docs/170.302.k_Immunizations_v1.0.pdf">http://healthcare.nist.gov/docs/170.302.k_Immunizations_v1.0.pdf</a>
M9	Submit lab results to public health	Capability to submit electronic data on reportable (as required by state or local law) lab results to public health agencies and actual submission in accordance with applicable law and practice	<a href="http://www.cms.gov/EHRIncentivePrograms/Downloads/9HM-ReportableLabResultstoPublicHealthAgencies.pdf">http://www.cms.gov/EHRIncentivePrograms/Downloads/9HM-ReportableLabResultstoPublicHealthAgencies.pdf</a>	§170.306 (g) Reportable lab results <a href="http://healthcare.nist.gov/docs/170.306.g_LabstoPH_v1.0.pdf">http://healthcare.nist.gov/docs/170.306.g_LabstoPH_v1.0.pdf</a> Transmission of Laboratory test results must use standards at 45CFR170.302(h): <a href="http://healthcare.nist.gov/docs/170.302.h_IncorpLabTest_v1.0.pdf">http://healthcare.nist.gov/docs/170.302.h_IncorpLabTest_v1.0.pdf</a> (HL7 2.5.1 and LOINC):
M10	Submit syndromic surveillance data	Capability to submit electronic syndromic surveillance data to public health agencies and actual submission in accordance with applicable law and practice	<a href="http://www.cms.gov/EHRIncentivePrograms/Downloads/10HM-SyndromicSurveillanceDataSubmission.pdf">http://www.cms.gov/EHRIncentivePrograms/Downloads/10HM-SyndromicSurveillanceDataSubmission.pdf</a>	Transmission of syndromic surveillance information must use the standards at 45 CFR 170.302(l) <a href="http://healthcare.nist.gov/docs/170.302.l_PublicHealthSurveillance_v1.0.pdf">http://healthcare.nist.gov/docs/170.302.l_PublicHealthSurveillance_v1.0.pdf</a> (HL7 2.3.1 or HL7 2.5.1)