EHR Meaningful Use Tables

Criteria for Certification: Capabilities your EHR needs

TABLE 1—CERTIFICATION CRITERIA

Proposed meaningful use Stage 1 objectives	Certification criteria to support the achievement of meaningful use Stage 1 by eli- gible professionals	Certification criteria to support the achievement of meaningful use Stage 1 by eli- gible hospital	
	A Complete EHR or EHR Module must include the capability to:		
Use Computerized Provider Order Entry (CPOE)3.	Enable a user to electronically record, store, retrieve, and manage, at a minimum, the following order types: 1. Medications; 2. Laboratory; 3. Radiology/imaging; and	Enable a user to electronically record, store, retrieve, and manage, at a minimum, the following order types: 1. Medications; 2. Laboratory; 3. Radiology/imaging;	
Proposed meaningful use Stage 1 objectives	Certification criteria to support the achievement of meaningful use Stage 1 by eli- gible professionals	Certification criteria to support the achievement of meaningful use Stage 1 by eli- gible hospital	
	4. Provider referrals.	4. Blood bank; 5. Physical therapy; 6. Occupational therapy; 7. Respiratory therapy; 8. Rehabilitation therapy; 9. Dialysis; 10. Provider consults; and 11. Discharge and transfer.	
Implement drug-drug, drug-allergy, drug-for- mulary checks. Maintain an up-to-date problem list of current and active diagnoses based on ICD-9-CM or SNOMED CT®.	real-time, alerts at the point of care for drug-drug and drug-allergy contraindications based on medication list, medication allergy list, age, and CPOE. 2. Enable a user to electronically check if drugs are in a formulary or preferred drug list in accordance with the standard specified in Table 2A row 2. 3. Provide certain users with administrator rights to deactivate, modify, and add rules for drugdrug and drug-allergy checking. 4. Automatically and electronically track, record, and generate reports on the number of alerts responded to by a user. Enable a user to electronically record, modify, and retrieve a patient's problem list for longitu-		
Generate and transmit permissible prescriptions electronically (eRx).	P- Enable a user to electronically transmit medication orders (prescriptions) for patients in accordance with the standards specified in Table 2A row 3.		
Maintain active medication list	Enable a user to electronically record, modify, and retrieve a patient's active medication list as well as medication history for longitudinal care (i.e., over multiple office visits) in accordance with the applicable standard specified in Table 2A row 1.		
Maintain active medication allergy list	Enable a user to electronically record, modify, and retrieve a patient's active medication allergy list as well as medication allergy history for longitudinal care (i.e., over multiple office visits).		
Record demographics 45	Enable a user to electronically record, modify, and retrieve patient demographic data in- cluding preferred language, insurance type, gender, race, ethnicity, and date of birth.	Enable a user to electronically record, modify, and retrieve patient demographic data in- cluding preferred language, insurance type, gender, race, ethnicity, date of birth, and date and cause of death in the event of mortality.	
Record and chart changes in vital signs: Height Weight Blood pressure Calculate and display: BMI Plot and display growth charts for children 2–20 years, including BMI. Record smoking status for patients 13 years old or older. Incorporate clinical lab-test results into EHR as structured data.	Enable a user to electronically record, modify, and retrieve the smoking status of a patient to: current smoker, former smoker, or never smoked.		

to use for quality improvement, reduction of disparities, and outreach. eport quality measures to CMS or the	clinical information, based on user-defined dem ditions. 1. Calculate and electronically display quality m		
States 78.	Enable a user to electronically submit calculated quality measures in accordance with the standard specified in Table 2A row 5.		
Proposed meaningful use Stage 1 objectives	Certification criteria to support the achievement of meaningful use Stage 1 by eli- gible professionals	Certification criteria to support the achievement of meaningful use Stage 1 by el gible hospital	
Send reminders to patients per patient pref- erence for preventive/follow up care.	Electronically generate, upon request, a pa- tient reminder list for preventive or follow-up care according to patient preferences based on demographic data, specific conditions, and/or medication list.	No Associated Proposed Meaningful Us Stage 1 Objective.	
Implement 5 clinical decision support rules 910	Implement automated, electronic clinical decision support rules (in addition to drug-drug and drug-allergy contraindication checking) according to specialty or clinical priorities that use demographic data, specific patient diagnoses, conditions, diagnostic test results and/or patient medication list. Automatically and electronically generate and indicate (e.g., pop-up message or sound) in real-time, alerts and care suggestions based upon clinical decision support rules and evidence grade. Automatically and electronically track, record, and generate reports on the number of alerts responded to by a user.	Implement automated, electronic clinical decision support rules (in addition to drug-druand drug-allergy contraindication checking according to a high priority hospital contion that use demographic data, specific patient diagnoses, conditions, diagnostic teresults and/or patient medication list. Automatically and electronically general and indicate (e.g., pop-up message asound) in real-time, alerts and care suggestions based upon clinical decision supportules and evidence grade. Automatically and electronically tracrecord, and generate reports on the number of alerts responded to by a user.	
Check insurance eligibility electronically from public and private payers.	Enable a user to electronically record and display patients' insurance eligibility, and submit insurance eligibility queries to public or private payers and receive an eligibility response in accordance with the applicable standards specified in Table 2A row 4.		
Submit claims electronically to public and private payers.			
Provide patients with an electronic copy of their health information upon request 1112.	Enable a user to create an electronic copy of a patient's clinical information, including, at a minimum, diagnostic test results, problem list, medication list, medication allergy list, immunizations, and procedures in: (1) Human readable format; and (2) accordance with the standards% specified in Table 2A row 1 to provide to a patient on electronic media, or through some other electronic means.	Enable a user to create an electronic copy a patient's clinical information, including, a minimum, diagnostic test results, problet list, medication list, medication allergy list immunizations, discharge summary, ar procedures in: (1) Human readable formation and (2) accordance with the standards specified in Table 2A row 1 to provide to patient on electronic media, or through some other electronic means.	
Provide patients with an electronic copy of their discharge instructions and procedures at time of discharge, upon request.	No Associated Proposed Meaningful Use Stage 1 Objective.	Enable a user to create an electronic copy the discharge instructions and procedure for a patient, in human readable format, the time of discharge to provide to a patie on electronic media, or through some oth electronic means.	
Provide patients with timely electronic access to their health information (including lab re- sults, problem list, medication lists, allergies) within 96 hours of the information being available to the eligible professional.	Enable a user to provide patients with online access to their clinical information, including, at a minimum, lab test results, problem list, medication list, medication allergy list, immunizations, and procedures.	No Associated Proposed Meaningful Us Stage 1 Objective.	
Provide clinical summaries for patients for each office visit.	 Enable a user to provide clinical summaries to patients (in paper or electronic form) for each office visit that include, at a minimum, diagnostic test results, medication list, medi- cation allergy list, procedures, problem list, and immunizations. 	No Associated Proposed Meaningful Us Stage 1 Objective.	
	 If the clinical summary is provided electronically (i.e., not printed), it must be provided in: (1) Human readable format; and (2) accordance with the standards% specified in Table 2A row 1 to provide to a patient on electronic media, or through some other 		

Proposed meaningful use Stage 1 objectives	Certification criteria to support the achievement of meaningful use Stage 1 by eli- gible professionals	Certification criteria to support the achievement of meaningful use Stage 1 by eli- gible hospital	
Capability to exchange key clinical information among providers of care and patient authorized entities electronically ¹³ ¹⁴ . Provide summary care record for each transition of care and referral.	1. Electronically receive a patient summary record, from other providers and organizations including, at a minimum, diagnostic test results, problem list, medication list, medication allergy list, immunizations, and procedures and upon receipt of a patient summary record formatted in an alternative standard specified in Table 2A row 1, displaying it in human readable format. 2. Enable a user to electronically transmit a patient summary record to other providers and organizations including, at a minimum, diagnostic test results, problem list, medication list, medication allergy list, immunizations, and procedures in accordance with the standards% specified in Table 2A row 1.	1. Electronically receive a patient summary record, from other providers and organizations including, at a minimum, discharge summary, diagnostic test results, problem list, medication list, medication allergy list, immunizations, and procedures and upon receipt of a patient summary record formatted in an alternative standard specified in Table 2A row 1, displaying it in human readable format. 2. Enable a user to electronically transmit a patient summary record, to other providers and organizations including, at a minimum, discharge summary, diagnostic test results, problem list, medication list, medication allergy list, immunizations, and procedures in accordance with the standards% specified in Table 2A row 1.	
Perform medication reconciliation at relevant encounters and each transition of care. Capability to submit electronic data to immunization registries and actual submission where required and accepted.	Electronically complete medication reconciliation of two or more medication lists (compare and merge) into a single medication list that can be electronically displayed in real-time. Electronically record, retrieve, and transmit immunization information to immunization registries in accordance with the standards% specified in Table 2A row 8 or in accordance with the applicable state-designated standard format.		
Capability to provide electronic submission of reportable lab results (as required by state or local law) to public health agencies and ac- tual submission where it can be received.	No Associated Proposed Meaningful Use Stage 1 Objective.	Electronically record, retrieve, and transmit re- portable clinical lab results to public health agencies in accordance with the standards% specified in Table 2A row 6.	
Capability to provide electronic syndromic surveillance data to public health agencies and actual transmission according to applicable law and practice. Protect electronic health information created or maintained by the certified EHR technology through the implementation of appropriate technical capabilities.	Electronically record, retrieve, and transmit syndrome-based (<i>e.g.</i> , influenza like illness) public health surveillance information to public health agencies in accordance with the standards specified in Table 2A row 7. 1. Assign a unique name and/or number for identifying and tracking user identity and establish controls that permit only authorized users to access electronic health information. 2. Permit authorized users (who are authorized for emergency situations) to access electronic health information during an emergency. 3. Terminate an electronic session after a predetermined time of inactivity. 4. Encrypt and decrypt electronic health information according to user-defined preferences (<i>e.g.</i> , backups, removable media, at log-on/off) in accordance with the standard specified in Table 2B row 2. 5. Encrypt and decrypt electronic health information when exchanged in accordance with the standard specified in Table 2B row 2. 6. Record actions (<i>e.g.</i> , deletion) related to electronic health information in accordance with the standard specified in Table 2B row 3 (<i>i.e.</i> , audit log), provide alerts based on user-defined events, and electronically display and print all or a specified set of recorded information upon request or at a set period of time. 7. Verify that electronic health information has not been altered in transit and detect the alteration and deletion of electronic health information and audit logs in accordance with the standard specified in Table 2B row 4. 8. Verify that a person or entity seeking access to electronic health information is the one claimed and is authorized to access such information in accordance with the standard specified in Table 2B row 5. 10. Record disclosures made for treatment, payment, and health care operations in accordance with the standard specified in Table 2B row 6.		

TABLE 2A—ADOPTED CONTENT EXCHANGE AND VOCABULARY STANDARDS

Row No.	Purpose	Category	Adopted standard(s) to support mean- ingful use stage 1	Candidate standard(s) to support meaningful use stage 2
1	Patient Summary Record	Cx	HL7 CDA R2 CCD Level 2 or ASTM CCR.	Alternatives expected to be narrowed based on HIT Standards Committee recommendations.
	Problem List	V	Applicable HIPAA code set required by law (i.e., ICD-9-CM); or SNOMED CT [®] .	Applicable HIPAA code set required by law (e.g., ICD-10-CM) or SNOMED CT®.
	Medication List	V	Any code set by an RxNorm drug data source provider that is identi- fied by the United States National Library of Medicine as being a com- plete data set integrated within RxNorm+.	RxNorm.
	Medication Allergy List Procedures	V	No standard adopted at this time Applicable HIPAA code sets required by law (i.e., ICD-9-CM or CPT-4®).	UNII. Applicable HIPAA code sets required by law (<i>i.e.</i> , ICD-10-PCS or CPT- 4 [®]).
	Vital Signs Units of Measure	V	No standard adopted at this time No standard adopted at this time	CDA template. UCUM.
	Lab Orders and Results	v	LOINC® when LOINC® codes have been received from a laboratory.	LOINC®,
2	Drug Formulary Check	Cx		Applicable Part D standard required by law.
3	Electronic Prescribing	Cx	Applicable Part D standard required by law (e.g., NCPDP SCRIPT 8.1) or NCPDP SCRIPT 8.1 and NCPDP SCRIPT 10.6.	NCPDP SCRIPT 10.6.
		V	Any code set by an RxNorm drug data source provider that is identi- fied by the United States National Library of Medicine as being a com- plete data set integrated within RxNorm+.	RxNorm.
4	Administrative Transactions	Cx	Applicable HIPAA transaction stand- ards required by law.	Applicable HIPAA transaction stand- ards required by law.
5	Quality Reporting	Cx	CMS PQRI 2008 Registry XML Speci- fication *.+.	Potentially newer version(s) or stand- ards based on HIT Standards Com- mittee Input.

¹⁸ The CDC's National Center of Immunization and Respiratory Diseases (NCIRD) maintains the

HL7 external code set CVX http://www.cdc.gov/vaccines/programs/iis/stds/cvx.htm.

TABLE 2A—ADOPTED CONTENT EXCHANGE AND VOCABULARY STANDARDS—Continued

Row No.	Purpose	Category	Adopted standard(s) to support mean- ingful use stage 1	Candidate standard(s) to support meaningful use stage 2
6	Submission of Lab Results to Public Health Agencies.	Cx	HL7 2.5.1	Potentially newer version(s) or stand- ards based on HIT Standards Com- mittee Recommendations.
		V	LOINC® when LOINC® codes have been received from a laboratory.	LOINC®, UCUM, and SNOMED CT® or Applicable Public Health Agency Requirements.
Submission to Public Health Agencies for Surveillance or Reporting (ex- cluding adverse event reporting).	Cx	HL7 2.3.1 or HL7 2.5.1	Potentially newer version(s) or stand- ards based on HIT Standards Com- mittee Input.	
		V	According to Applicable Public Health Agency Requirements.	GIPSE or According to Applicable Public Health Agency Require- ments.
8 Submission to Immunizatio istries.		Cx	HL7 2.3.1 or HL7 2.5.1	Potentially newer version(s) or stand- ards based on HIT Standards Com- mittee Recommendations.
		٧	CVX*.+	CVX.

TABLE 2B-ADOPTED PRIVACY AND SECURITY STANDARDS

Row No.	Purpose	Adopted standard
1	General Encryption and Decryption of Electronic Health Information.	A symmetric 128 bit fixed-block cipher algorithm capable of using a 128, 192, or 256 bit encryption key must be used (e.g., FIPS 197 Advanced Encryption Standard, (AES), Nov 2001).+
2	Encryption and Decryption of Electronic Health Information for Exchange.	An encrypted and integrity protected link must be implemented (e.g., TLS, IPv6, IPv4 with IPsec).+
3		The date, time, patient identification (name or number), and user identification (name or number) must be recorded when electronic health information is created, modified, deleted, or printed. An indication of which action(s) occurred must also be recorded (e.g., modification), *
4	Verification that Electronic Health Informa- tion has not been Altered in Transit.	A secure hashing algorithm must be used to verify that electronic health information has not been altered in transit. The secure hash algorithm used must be SHA-1 or higher (e.g., Federal Information Processing Standards (FIPS) Publication (PUB) Secure Hash Standard (SHS) FIPS PUB 180-3).+
5	Cross-Enterprise Authentication	Use of a cross-enterprise secure transaction that contains sufficient identity informa- tion such that the receiver can make access control decisions and produce detailed and accurate security audit trails (e.g., IHE Cross Enterprise User Assertion (XUA) with SAML identity assertions).+
6	Record Treatment, Payment, and Health Care Operations Disclosures.	The date, time, patient identification (name or number), user identification (name or number), and a description of the disclosure must be recorded.+