§ 170.300

(a) The certification criteria adopted in this subpart apply to the testing and certification of Complete EHRs and EHR Modules.

(b) When a certification criterion refers to two or more standards as alternatives, use of at least one of the alternative standards will be considered compliant.

(c) Complete EHRs and EHR Modules are not required to be compliant with certification criteria that are designated as optional.


dating 77 FR 54286, Sept. 4, 2012, §170.300 was amended by revising paragraph (c) and add paragraph (d), effective Oct. 4, 2012. For the convenience of the user, the added and revised text is set forth as follows:

§ 170.300 Applicability.

(a) The certification criteria adopted in this subpart apply to the testing and certification of Complete EHRs and EHR Modules.

(b) When a certification criterion refers to two or more standards as alternatives, the use of at least one of the alternative standards will be considered compliant.

(c) Complete EHRs and EHR Modules are not required to be compliant with certification criteria or capabilities specified within a certification criterion that are designated as optional.

(d) In §170.314, all certification criteria and all capabilities specified within a certification criterion have general applicability (i.e., apply to both ambulatory and inpatient settings) unless designated as “inpatient setting only” or “ambulatory setting only.”

1 “Inpatient setting only” means that the criterion or capability within the criterion is only required for certification of EHR technology designed for use in an inpatient setting.

2 “Ambulatory setting only” means that the criterion or capability within the criterion is only required for certification of EHR technology designed for use in an ambulatory setting.

§ 170.302 General certification criteria for Complete EHRs or EHR Modules.

The Secretary adopts the following general certification criteria for Complete EHRs or EHR Modules. Complete EHRs or EHR Modules must include the capability to perform the following functions electronically, unless designated as optional, and in accordance with all applicable standards and implementation specifications adopted in this part:

(a) Drug-drug, drug-allergy interaction checks—(1) Notifications. Automatically and electronically generate and indicate in real-time, notifications at the point of care for drug-drug and drug-allergy contraindications based on medication list, medication allergy list, and computerized provider order entry (CPOE).

(b) Drug-formulary checks. Enable a user to electronically check if drugs are in a formulary or preferred drug list.

(c) Maintain up-to-date problem list. Enable a user to electronically record, modify, and retrieve a patient’s problem list for longitudinal care in accordance with:

1 The standard specified in §170.207(a)(1); or

2 At a minimum, the version of the standard specified in §170.207(a)(2).

(d) Maintain active medication list. Enable a user to electronically record, modify, and retrieve a patient’s active medication list as well as medication allergy history for longitudinal care.

(e) 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.
(f) Record and chart vital signs—(1) Vital signs. Enable a user to electronically record, modify, and retrieve a patient’s vital signs including, at a minimum, height, weight, and blood pressure.

(2) Calculate body mass index. Automatically calculate and display body mass index (BMI) based on a patient’s height and weight.

(3) Plot and display growth charts. Plot and electronically display, upon request, growth charts for patients 2–20 years old.

(g) Smoking status. Enable a user to electronically record, modify, and retrieve the smoking status of a patient. Smoking status types must include: current every day smoker; current some day smoker; former smoker; never smoker; smoker, current status unknown; and unknown if ever smoked.

(h) Incorporate laboratory test results—
(1) Receive results. Electronically receive clinical laboratory test results in a structured format and display such results in human readable format.

(2) Display test report information. Electronically display all the information for a test report specified at 42 CFR 493.1291(c)(1) through (7).

(3) Incorporate results. Electronically attribute, associate, or link a laboratory test result to a laboratory order or patient record.

(i) Generate patient lists. Enable a user to electronically select, sort, retrieve, and generate lists of patients according to, at a minimum, the data elements included in:

(1) Problem list;
(2) Medication list;
(3) Demographics; and
(4) Laboratory test results.

(j) Medication reconciliation. Enable a user to electronically compare two or more medication lists.

(k) Submission to immunization registries. Electronically record, modify, retrieve, and submit immunization information in accordance with:

(1) The standard (and applicable implementation specifications) specified in §170.205(e)(1) or §170.205(e)(2); and

(2) At a minimum, the version of the standard specified in §170.207(e).

(l) Public health surveillance. Electronically record, modify, retrieve, and submit syndrome-based public health surveillance information in accordance with the standard specified in §170.205(d)(1) or §170.205(d)(2).

(m) Patient-specific education resources. Enable a user to electronically identify and provide patient-specific education resources according to, at a minimum, the data elements included in the patient’s: problem list; medication list; and laboratory test results; as well as provide such resources to the patient.

(n) Automated measure calculation. For each meaningful use objective with a percentage-based measure, electronically record the numerator and denominator and generate a report including the numerator, denominator, and resulting percentage associated with each applicable meaningful use measure.

(o) Access control. 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.

(p) Emergency access. Permit authorized users (who are authorized for emergency situations) to access electronic health information during an emergency.

(q) Automatic log-off. Terminate an electronic session after a predetermined time of inactivity.

(r) Audit log—(1) Record actions. Record actions related to electronic health information in accordance with the standard specified in §170.210(b).

(2) Generate audit log. Enable a user to generate an audit log for a specific time period and to sort entries in the audit log according to any of the elements specified in the standard at §170.210(b).

(s) Integrity—(1) Create a message digest in accordance with the standard specified in §170.210(c).

(2) Verify in accordance with the standard specified in §170.210(c) upon receipt of electronically exchanged health information that such information has not been altered.

(3) Detection. Detect the alteration of audit logs.

(t) Authentication. Verify that a person or entity seeking access to electronic health information is the one
§ 170.304 Specific certification criteria for Complete EHRs or EHR Modules designed for an ambulatory setting.

The Secretary adopts the following certification criteria for Complete EHRs or EHR Modules designed to be used in an ambulatory setting. Complete EHRs or EHR Modules must include the capability to perform the following functions electronically and in accordance with all applicable standards and implementation specifications adopted in this part:

(a) Computerized provider order entry. Enable a user to electronically record, store, retrieve, and modify, at a minimum, the following order types:
   (1) Medications;
   (2) Laboratory; and
   (3) Radiology/imaging.

(b) Electronic prescribing. Enable a user to electronically generate and transmit prescriptions and prescription-related information in accordance with:
   (1) The standard specified in §170.205(b)(1) or §170.205(b)(2); and
   (2) The standard specified in §170.207(d).

(c) Record demographics. Enable a user to electronically record, modify, and retrieve patient demographic data including preferred language, gender, race, ethnicity, and date of birth. Enable race and ethnicity to be recorded in accordance with the standard specified at §170.207(f).

(d) Patient reminders. Enable a user to electronically generate a patient reminder list for preventive or follow-up care according to patient preferences based on, at a minimum, the data elements included in:
   (1) Problem list;
   (2) Medication list;
   (3) Medication allergy list;
   (4) Demographics; and
   (5) Laboratory test results.

(e) Clinical decision support—(1) Implement rules. Implement automated, electronic clinical decision support rules (in addition to drug-drug and drug-allergy contraindication checking) based on the data elements included in: problem list; medication list; demographics; and laboratory test results.
   (2) Notifications. Automatically and electronically generate and indicate in real-time, notifications and care suggestions based upon clinical decision support rules.

(f) Electronic copy of health information. 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, and medication allergy list in:
   (1) Human readable format; and
   (2) On electronic media or through some other electronic means in accordance with:
      (i) The standard (and applicable implementation specifications) specified in §170.205(a)(1) or §170.205(a)(2); and
      (ii) For the following data elements the applicable standard must be used:
          (A) Problems. The standard specified in §170.207(a)(1) or, at a minimum, the version of the standard specified in §170.207(a)(2);
          (B) Laboratory test results. At a minimum, the version of the standard specified in §170.207(c); and
          (C) Medications. The standard specified in §170.207(d).

(g) Timely access. Enable a user to provide patients with online access to their clinical information, including, at a minimum, lab test results, problem list, medication list, and medication allergy list.