

## 2015 Edition §170.315(a)(4) Drug-Drug, Drug-Allergy Interaction Checks for CPOE

Testing Components:

Gap				
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Test Procedure Version 1.0 – Last Updated 1/08/16

Please consult the Final Rule entitled: *2015 Edition Health Information Technology (Health IT) Certification Criteria, 2015 Edition Base Electronic Health Record (EHR) Definition, and ONC Health IT Certification Program Modifications* for a detailed description of the certification criterion with which these testing steps are associated. We also encourage developers to consult the Certification Companion Guide in tandem with the test procedure as they provide clarifications that may be useful for product development and testing.

*Note: The order in which the test steps are listed reflects the sequence of the certification criterion and does not necessarily prescribe the order in which the test should take place.*

**Required Tests**

**(a)(4)(i) Interventions**

Before a medication order is completed and acted upon during computerized provider order entry (CPOE), interventions must automatically indicate to a user drug-drug and drug-allergy contraindications based on a patient's medication list and medication allergy list.

Standard(s): None

Criteria ¶	System Under Test	Test Lab Verification
(i)	<ol style="list-style-type: none"> <li>1. The user enters a medication order using CPOE and is automatically provided:                             <ol style="list-style-type: none"> <li>a. Drug-drug contraindication intervention(s) based on the patient's medication list prior to completing the order.</li> <li>b. Drug-allergy contraindication intervention(s) based on the patient's medication allergy list prior to completing the order.</li> </ol> </li> </ol>	<ol style="list-style-type: none"> <li>1. The tester verifies that:                             <ol style="list-style-type: none"> <li>a. Automatic drug-drug contraindication is based on the patient's medication list and indicated to the user prior to completing the medication order.</li> <li>b. Automatic drug-allergy contraindication is based on the patient's medication allergy list and indicated to the user prior to completing the medication order.</li> </ol> </li> </ol>

**(a)(4)(ii) Adjustments**

- (A) Enable the severity level of interventions provided for drug-drug interaction checks to be adjusted.
- (B) Limit the ability to adjust severity levels in at least one of these two ways:
  - (1) To a specific set of identified users.
  - (2) As a system administrative function.

Standard(s): None

Criteria ¶	System Under Test	Test Lab Verification
(ii) (A)-(B)	<ol style="list-style-type: none"> <li>1. The identified user(s) or system administrative user adjusts the severity level for the drug-drug interaction to be shown in section (i).</li> <li>2. Negative test: The unauthorized user or system administrative user attempts to adjust the severity level of interventions for drug-drug interaction checks.</li> </ol>	<ol style="list-style-type: none"> <li>1. The tester verifies that the severity level was adjusted for the drug-drug interaction shown in section (i) and only by a specific set of identified users or a system administrative user.</li> <li>2. Negative test: The tester verifies that an unauthorized user cannot adjust the severity level of the drug-drug interventions.</li> </ol>

**Document History**

Version Number	Description of Change	Date
1.0	Final Test Procedure	January 08, 2016

Dependencies: For all related and required criteria, please refer to the [Master Table of Related and Required Criteria](#).