

Test Procedure for §170.302(e)(3) Plot and display growth charts

Certification Criteria

§170.302 (e)(3) Plot and display growth charts. Plot and electronically display, upon request, growth charts for patients 2-20 years old.

Informative Test Description

This test evaluates the capability for a Complete EHR or combination of EHR Modules to plot and electronically display, upon request, growth charts for patients 2-20 years old. The test consists of one section:

Plot and Display - evaluates the capability to plot and display, upon request, growth charts for patients 2-20 years old

- The Tester enters the NIST-supplied height and weight for 2 patients (1 male and 1 female) 2-20 years old
- The Tester displays the height and weight entered during the test
- The Tester validates that the height and weight are plotted and displayed accurately on the gender-appropriate growth chart

Standards Referenced

None

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Normative Test Procedure

Derived Test Requirement (s)

DTR170.302.e.3 - 1: Plot and display growth charts

Required Vendor Information

VE170.302.e.3 - 1.01: Vendor shall identify six patients with an existing record in the EHR to be used for this test - Three male patients, ages 3 years old, 9 years old and 13 years old; Three female patients, ages 4 years old, 9 years old and 17 years old

OR

Vendor shall identify six patients with an existing record in the EHR to be used for this test - Three male patients with ages that conform to the age data provided for males in the test data set for this test; Three female patients with ages that conform to the age data provided for females in the test data set for this test

VE170.302.e.3 - 1.02: Vendor shall identify the EHR function(s) that are available to: 1) select these patients, 2) enter the height and weight for these patients, and 3) plot and display growth charts for these patients

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Required Test Procedure

- TE170.302.e.3 - 1.01: Tester shall select height and weight data from the NIST-supplied test data sets appropriate for one male patient and one female patient of the six patients identified by the Vendor
- TE170.302.e.3 - 1.02: Utilizing the EHR function(s) identified by the Vendor, the Tester shall select each of those patient's existing EHR records and enter their height and weight data
- TE170.302.e.3 - 1.03: Utilizing the NIST-supplied Inspection Test Guide, the Tester shall verify that the test data have been entered correctly and without omission
- TE170.302.e.3 - 1.04: Utilizing the EHR function(s) identified by the Vendor, the Tester shall verify that the height and weight for each patient is plotted and displayed on the appropriate growth chart (male or female, 2-20 years)

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Inspection Test Guide

- IN170.302.e.3 – 1.01: Tester shall verify that the required units of measure appropriate for the height and weight are displayed or can be selected at the time height and weight are entered
- IN170.302.e.3 – 1.02: Tester shall verify that the height and weight test data are entered correctly and without omission
- IN170.302.e.3 – 1.03: Tester shall verify that the height and weight are stored in the patient's record
- IN170.302.e.3 – 1.04: Tester shall verify that the gender and age of each patient are displayed
- IN170.302.e.3 – 1.05: Tester shall verify that the appropriate growth charts (male or female, 2-20 years) display
- IN170.302.e.3 – 1.06: Tester shall verify that the indicator for the point at which the height and age meet on the growth chart for the male patient is plotted accurately
- IN170.302.e.3 – 1.07: Tester shall verify that the indicator for the point where the weight and age meet on the growth chart for the male patient is plotted accurately
- IN170.302.e.3 – 1.08: Tester shall verify that the indicator for the point where the height and age meet on the growth chart for the female patient is plotted accurately
- IN170.302.e.3 – 1.09: Tester shall verify that the indicator for the point where the weight and age meet on the growth chart for the female patient is plotted accurately

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Example Test Data

Age	Height	Weight
Male		
3 years old	2 feet 10 inches / 86 cm	30 lbs / 14 kg
10 years old	4 feet 3 inches / 129.54 cm	70.4 lbs / 32 kg
13 years old	5 feet 7 inches / 170 cm	150 lbs/ 68 kg
Female		
4 years old	3 feet 1 inch / 93.98 cm	35.2 lbs / 16 kg
9 years old	4 feet 8 inches / 142 cm	75 lbs/ 34 kg
17 years old	5 feet 11 inches /180 cm	110 lbs / 50 kg

Conformance Test Tools

None