

Test Data for §170.314(a)(4) Vital signs, body mass index, and growth charts

Test data provided for public comment are samples and will be updated when the test procedures are finalized. Test data are provided to ensure that the functional and interoperability requirements identified in the criterion can be adequately evaluated for conformance, as well as to provide consistency in the testing process across multiple ATLS. The provided test data focus on evaluating the basic capabilities of required EHR technology, rather than exercising the full breadth/depth of capability that installed EHR technology might be expected to support. The test data are formatted for readability of use within the testing process. The format is not prescribing a particular end-user view or rendering. No additional requirements should be drawn from the format.

The Tester shall use and apply the provided test data during the test, without exception, unless one of the following conditions exists:

- The Tester determines that the Vendor product is sufficiently specialized that the provided test data needs to be modified in order to conduct an adequate test. Having made the determination that some modification to the provided test data is necessary, the Tester shall record the modifications made as part of the test documentation.
- The Tester determines that changes to the test data will improve the efficiency of the testing process; primarily through using consistent demographic data throughout the testing workflow. The Tester shall ensure that the functional and interoperable requirements identified in the criterion can be adequately evaluated for conformance and that the test data provides a comparable level of robustness.

Any departure from the provided test data shall strictly focus on meeting the basic capabilities required of EHR technology relative to the certification criterion rather than exercising the full breadth/depth of capability that installed EHR technology might be expected to support.

The Test Procedures require that the Tester enter the test data into the EHR technology being evaluated for conformance. The intent is that the Tester fully controls the process of entering the test data in order to ensure that the data are correctly entered as specified in the test procedure. If a situation arises where it is impractical for a Tester to directly enter the test data, the Tester, at the Tester's discretion, may instruct the Vendor to enter the test data, so long as the Tester remains in full control of the testing process, directly observes the test data being entered by the Vendor, and verifies that the test data are entered correctly as specified in the test procedure.

TEST DATA FOR VITAL SIGNS

TD170.314.a.4.i – 1: Electronically Record Numerical Patient Vital Signs (Blood pressure may be entered as a single value into one blood pressure field or as two separate values – systolic and diastolic – each entered into its own part of a two-part blood pressure field)

Vital Signs Test Data - Set 1

Height/Length: 5 ft 5 in OR 65 in OR 1.65 m OR 165 cm
Weight: 139 lbs OR 139 lbs 2 oz OR 63 kg OR 63,049 gm
Blood pressure: 110/90

Vital Signs Test Data - Set 2

Height/Length: 6 ft 3 in OR 75 in OR 1.91 m OR 191 cm
Weight: 195 lbs OR 194 lbs 13 oz OR 88.4 kg OR 88,400 gm
Blood pressure: 130/80

TD170.314.a.4.i – 2: Electronically Change Patient Vital Signs

Vital Signs Test Data - Set 1

Change the height/length from 5 ft 5 in OR 65 in OR 1.65 m OR 165 cm to **5 ft 6 in OR 66 in OR 1.67 m OR 167 cm**
Change the weight from 139 lbs OR 139 lbs 2 oz OR 63 kg OR 63,049 gm to **136 lbs OR 136 lbs 3 oz OR 62 kg OR 62,000 gm**
Change the blood pressure from 110/90 to **120/80**

Revised Vital Signs Data

Height/Length: 5 ft 6 in OR 66 in OR 1.67 m OR 167 cm
Weight: 136 lbs OR 136 lbs 3 oz OR 62 kg OR 62,000 gm
Blood pressure: 120/80

Vital Signs Test Data - Set 2

Change the height/length from 6 ft 3 in OR 75 in OR 1.91 m OR 191 cm to **6 ft 2 in OR 74 in OR 1.88 m OR 188 cm**
Change the weight from 195 lbs OR 195 lbs 13 oz OR 88.4 kg OR 88,400 gm to **204 lbs OR 204 lbs 5 oz OR 92.6 kg OR 92,600 gm**
Change the blood pressure from 130/80 to **125/70**

Revised Vital Signs Data

Height/Length: 6 ft 2 in OR 74 in OR 1.88 m OR 188 cm
Weight: 204 lbs OR 204 lbs 5 oz OR 92.6 kg OR 92,600 gm
Blood pressure: 125/70

TD170.314.a.4.i – 3: Electronically Access Patient Vital Signs

Revised Vital Signs Data - Set 1

Height/Length: 5 ft 6 in OR 66 in OR 1.67 m OR 167 cm
Weight: 139 lbs OR 139 lbs 3 oz OR 62 kg OR 62,000 gm
Blood pressure: 120/80

Revised Vital Signs Data -Set 2

Height/Length: 6 ft 2 in OR 74 in OR 1.88 m OR 188 cm
Weight: 204 lbs OR 204 lbs 5 oz OR 92.6 kg OR 92,600 gm
Blood pressure: 125/70

TEST DATA FOR BODY MASS INDEX

TD170.314.a.4.ii – 1: Automatically Calculate and Electronically Display Body Mass Index (BMI)

The CDC BMI Calculator used for this test data is available at:

http://www.cdc.gov/healthyweight/assessing/bmi/adult_bmi/english_bmi_calculator/bmi_calculator.html

Use of the CDC BMI Calculator is not required. It is recognized that other BMI calculators may have slightly different algorithms and the derived BMI may not be exactly the same as the test data below. It is the Tester's discretion to determine if the BMI value calculated during the test is comparable to the test data.

Test Data - Set 1

Height: 5 ft 2 in OR 62 in OR 1.57 meters OR 157 centimeters
Weight: 140 lbs OR 63.5 kg OR 63,503 gm
Calculated BMI: 25.6

Test Data - Set 2

Height: 5 ft 6 in OR 66 in OR 1.68 meters OR 168 centimeters
Weight: 142 lbs OR 64.4 kg OR 64,410 gm
Calculated BMI: 22.9

Test Data - Set 3

Height: 6 ft 1 in OR 73 in OR 1.85 meters OR 185 centimeters
Weight: 227 lbs OR 103 kg OR 102,965 gm
Calculated BMI: 29.9

TEST DATA FOR GROWTH CHARTS

TD170.314.a.4.iii – 1: Plot and Electronically Display Data on a Growth Chart

Test Data for Male Patient

Test Data Set 1

Age: 2 years old

Height: 3 ft 1 in OR 37 in OR 0.94 meters OR 94 cm

Weight: 33 lbs OR 32 lbs 14 oz OR 15 kg OR 15,000 gm

Test Data Set 2

Age: 12 years old

Height: 5 ft 1 in OR 61 in OR 1.55 meters OR 155 cm

Weight: 99 lbs OR 98 lbs 11 oz OR 45 kg OR 45,000 gm

Test Data Set 3

Age: 21 years old

Height: 5 ft 9 in OR 69 in OR 1.75 meters OR 175 cm

Weight: 167 lbs OR 166 lbs 13 oz OR 76 kg OR 76,000 gm

Test Data for Female Patient

Test Data Set 1

Age: 22 months old

Height: 2 ft 6 in OR 30 in OR .76 meters OR 76 cm

Weight: 22 lbs OR 22 lbs 2 oz OR 10 kg OR 10,000 gm

Test Data Set 2

Age: 14 years old

Height: 5 ft 3 in OR 63 in OR 1.6 meters OR 160 cm

Weight: 110 lbs OR 110 lbs 1 oz OR 50 kg OR 50,000 gm

Test Data Set 3

Age: 29 years old

Height: 5 ft 6 in OR 66 in OR 1.68 meters OR 168 cm

Weight: 132 lbs OR 131 lbs 14 oz OR 60 kg OR 60,000 gm