

**ONC 2015 Edition  
Certification Test Data  
Syndromic Surveillance**

**Version 1.4.1**

**5th July, 2018**

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# ONC 2015 Certification

This Test Plan is designed to be used for ONC 2015 Edition Health IT Module certification testing related to Transmission to public health agencies - syndromic surveillance

## Test Story

|                            |
|----------------------------|
| <b>Description</b>         |
| null                       |
| <b>Comments</b>            |
| null                       |
| <b>Pre-condition</b>       |
| null                       |
| <b>Post-Condition</b>      |
| null                       |
| <b>Test Objectives</b>     |
| null                       |
| <b>Evaluation Criteria</b> |
| null                       |
| <b>Notes</b>               |
| null                       |

# 1. Urgent Care Visit

Patient is seen in Urgent Care Center and is discharged/dispositioned to home.

## Test Story

|                     |
|---------------------|
| Description         |
| null                |
| Comments            |
| null                |
| Pre-condition       |
| null                |
| Post-Condition      |
| null                |
| Test Objectives     |
| null                |
| Evaluation Criteria |
| null                |
| Notes               |
| null                |

## 1.1. SS-UC-1\_UC\_Visit\_Influenza\_Child

Test case addresses a child brought to an urgent care center with influenza and?stenosis of external ear canal due to inflammation.

### Test Story

#### Description

Syndromic surveillance is public health surveillance that emphasizes the use of near "real-time" health data and statistical tools for disease or hazardous event detection, situation awareness for mass gatherings and public health emergencies, and ad hoc and population health trend analyses. For syndromic surveillance purposes, required data on all clinical encounters must be sent to the jurisdictional public health agency within 24 hours of any given encounter, and in accordance with local or state laws and practices.

The Child\_Influenza Test Case provides an example of a clinical encounter that could take place in either an urgent care or emergency clinical setting. It is therefore applicable to EHR technology used in some ambulatory settings. This test case also provides an example where the facility sending the syndromic surveillance message is different than the facility where the patient received care.

In this test case, an infant is seen at an urgent care center for fever, cough, and earache. Diagnostic tests show that he has influenza and stenosis of the external ear canal. He is discharged to home with treatment instructions and a prescription. Syndromic surveillance data about the visit are transmitted to the local health department.

This test case involves 2 steps: a registration message (ADT^A04) followed by a discharge message (ADT^A03).

#### Comments

No Comments

#### Pre-condition

No PreCondition

#### Post-Condition

No PostCondition

#### Test Objectives

No Test Objectives

#### Evaluation Criteria

No evaluation criteria

#### Notes

Support for the ADT^A08 message type in the Urgent Care Setting is Required by the PHIN Syndromic Surveillance Messaging Guide Release 2.0.

Until a Test Step for the A08 message type is added to the Urgent Care Test Case in the NIST Tool, Testers may, at the discretion of ONC, require HIT Modules to demonstrate support for the A08 message type using one of the two ED Test Cases in the Tool for certification testing.

### 1.1.1. SS-UC-1.1\_Registration\_A04

Patient is registered at an Urgent Care Center and is assigned a working diagnosis.

#### Test Story

##### Description

A mother brings her 6-month old male infant to Big City Children's Urgent Care on February 20, 2010 at 8:30 AM. A clerical assistant registers the patient. She records the patient's name, date of birth, race, ethnicity, residence, insurance information, and health history. The clerical assistant also records the patient's chief complaint in free-text is, "Fever, cough, and earache." At 8:35 AM a nurse sees the patient and performs a vital sign assessment, noting that the child currently has a temperature of 101.2 with a productive cough and right ear inflammation and fluid build-up. At 9:00 AM the physician orders a rapid influenza test, chest x-ray, and a treatment. The physician assigns the patient with working diagnoses of influenza with other respiratory manifestations (ICD-9 CM diagnosis code of 487.1), and stenosis of external ear canal due to inflammation (ICD-9 CM diagnosis code of 380.53) within the patient's electronic medical record. Big City Children's Urgent Care is an outpatient facility operated by Children's Hospital of Big City that routinely sends electronic syndromic surveillance data to the Big City Health Department (BCHD) in accordance with a city regulation. At 10:00 AM on February 20, 2010, the facility's electronic health record module for syndromic surveillance data assembles and transmits a Registration ADT message about this patient encounter.

##### Comments

This Test Scenario provides an example of clinical encounter that could take place in either an urgent care or emergency clinical setting. It is therefore applicable to EHR technology used in some ambulatory settings. Dates and times are provided in this test scenario to illustrate the sequence of clinical and messaging events. Since the exact dates and times are not reproducible when modeling the test scenario with EHR technology, only date and time format will be validated within tester submitted test data.

##### Pre-condition

No PreCondition

##### Post-Condition

No PostCondition

##### Test Objectives

This test step examines a Health IT Module's ability to create ADT^A04 Registration message within PHIN Messaging Guide's conformance requirements.

##### Evaluation Criteria

Message Validation Report

##### Notes

Per ONC, for certification testing HIT developers must demonstrate that their system supports either the ICD-10 CM or SNOMED CT value set and are no longer required to demonstrate support for the ICD-9 CM value set (this policy is not conformant to the PHIN Syndromic Surveillance Messaging Guide, Rel2.0, April 2015).

ICD-9 CM codes still are provided in the test data for coding the working diagnoses. The HIT

developer must supply equivalent ICD-10CM or SNOMED CT code data in the test message. If the HIT developer uses ICD-10 CM or SNOMED CT codes that are equivalent to the ICD-9CM codes provided, the Tester may ignore errors generated by the Test Tool related to incorrect code/name of coding system and must determine via visual inspection whether the ICD-10 CM or SNOMED CT code data are valid.

ICD-10 CM diagnosis codes are acceptable with or without decimals.

Although the other units of measure for patient age are acceptable in general (and the Context-free validation accepts any of the valid units of measure for age), this Scenario specifies that "mo" for months be used in this message for the Context-based validation.

Visit Number ID (PV1-19.1) must be populated with the same value for all messages included in this Test Case to reflect the requirement in real-world installations. Test Tool does not automatically test for this requirement, so Testers must manually inspect the messages to verify that PV1-19.1 is the same for all Test Step messages for a given Test Case.

## Message Contents

MSH : Message Header

| Location | Data Element                    | Data                     | Categorization               |
|----------|---------------------------------|--------------------------|------------------------------|
| MSH-1    | Field Separator                 |                          | Value-Profile Fixed          |
| MSH-2    | Encoding Characters             | ^~\&                     | Value-Profile Fixed          |
| MSH-4    | Sending Facility                |                          |                              |
| MSH-4.1  | Namespace ID                    | ChildHospBigCity         | Presence-Configuration       |
| MSH-4.2  | Universal ID                    | 1331231234               | Presence-Configuration       |
| MSH-4.3  | Universal ID Type               | NPI                      | Presence-Configuration       |
| MSH-7    | Date/Time Of Message            |                          |                              |
| MSH-7.1  | Time                            | 201002201000             | Presence-System Generated    |
| MSH-9    | Message Type                    |                          |                              |
| MSH-9.1  | Message Code                    | ADT                      | Value-Profile Fixed          |
| MSH-9.2  | Trigger Event                   | A04                      | Value-Profile Fixed          |
| MSH-9.3  | Message Structure               | ADT_A01                  | Value-Profile Fixed          |
| MSH-10   | Message Control ID              | NIST-SS-001.11           | Presence-System Generated    |
| MSH-11   | Processing ID                   |                          |                              |
| MSH-11.1 | Processing ID                   | P                        | Presence-Content Indifferent |
| MSH-12   | Version ID                      |                          |                              |
| MSH-12.1 | Version ID                      | 2.5.1                    | Value-Profile Fixed          |
| MSH-15   | Accept Acknowledgment Type      | AL                       | Value-Profile Fixed          |
| MSH-16   | Application Acknowledgment Type | AL                       | Presence-Content Indifferent |
| MSH-21   | Message Profile Identifier      |                          |                              |
| MSH-21.1 | Entity Identifier               | PH_SS-Ack                | Value-Profile Fixed          |
| MSH-21.2 | Namespace ID                    | SS Sender                | Value-Profile Fixed          |
| MSH-21.3 | Universal ID                    | 2.16.840.1.114222.4.10.3 | Value-Profile Fixed          |
| MSH-21.4 | Universal ID Type               | ISO                      | Value-Profile Fixed          |



**EVN : Event Type**

| Location | Data Element       | Data               | Categorization               |
|----------|--------------------|--------------------|------------------------------|
| EVN-2    | Recorded Date/Time |                    |                              |
| EVN-2.1  | Time               | 201002200900       | Presence-System Generated    |
| EVN-7    | Event Facility     |                    |                              |
| EVN-7.1  | Namespace ID       | BgCtyChldmUrgntCar | Presence-Content Indifferent |
| EVN-7.2  | Universal ID       | 1231231234         | Presence-Content Indifferent |
| EVN-7.3  | Universal ID Type  | NPI                | Presence-Configuration       |

**PID : Patient Identification**

| Location    | Data Element            | Data                                      | Categorization               |
|-------------|-------------------------|---|------------------------------|
| PID-1       | Set ID - PID            | 1   | Value-Profile Fixed          |
| PID-3       | Patient Identifier List |   |                              |
| PID-3.1     | ID Number               | 11111                                     | Presence-Content Indifferent |
| PID-3.4     | Assigning Authority     |   |                              |
| PID-3.4.1   | Namespace ID            | BgCtyChldmUrgntCar                        | Presence-Content Indifferent |
| PID-3.4.2   | Universal ID            | 1231231234                                | Presence-Content Indifferent |
| PID-3.4.3   | Universal ID Type       | NPI                                       | Presence-Configuration       |
| PID-5[1]    | Patient Name            |   |                              |
| PID-5[1].7  | Name Type Code          |   | NonPresence                  |
| PID-5[2]    | Patient Name            |   |                              |
| PID-5[2].7  | Name Type Code          | S   | Value-Test Case Fixed        |
| PID-8       | Administrative Sex      | M   | Value-Test Case Fixed        |
| PID-10[1]   | Race                    |   |                              |
| PID-10[1].1 | Identifier              | 2106-3                                    | Value-Test Case Fixed        |
| PID-10[1].2 | Text                    | White                                     | Presence-Test Case Proper    |
| PID-10[1].3 | Name of Coding System   | CDCREC                                    | Value-Profile Fixed          |
| PID-10[2]   | Race                    |   |                              |
| PID-10[2].1 | Identifier              | 2028-9                                    | Value-Test Case Fixed        |
| PID-10[2].2 | Text                    | Asian                                     | Presence-Test Case Proper    |
| PID-10[2].3 | Name of Coding System   | CDCREC                                    | Value-Profile Fixed          |
| PID-10[3]   | Race                    |   |                              |
| PID-10[3].1 | Identifier              | 2076-8                                    | Value-Test Case Fixed        |
| PID-10[3].2 | Text                    | Native Hawaiian or Other Pacific Islander | Presence-Test Case Proper    |
| PID-10[3].3 | Name of Coding System   | CDCREC                                    | Value-Profile Fixed          |
| PID-11      | Patient Address         |   |                              |
| PID-11.3    | City                    | Jamaica Plain                             | Presence-Content Indifferent |
| PID-11.4    | State or Province       | 25  | Presence-Content Indifferent |
| PID-11.5    | Zip or Postal Code      | 02130                                     | Presence-Content Indifferent |
| PID-11.6    | Country                 | USA                                       | Presence-Content Indifferent |
| PID-11.9    | County/Parish Code      | 25025                                     | Presence-Content Indifferent |
| PID-22      | Ethnic Group            |   |                              |
| PID-22.1    | Identifier              | 2186-5                                    | Value-Test Case Fixed        |
| PID-22.2    | Text                    | Not Hispanic or Latino                    | Presence-Test Case Proper    |
| PID-22.3    | Name of Coding System   | CDCREC                                    | Value-Profile Fixed          |

**PV1 : Patient Visit**

| Location   | Data Element          | Data               | Categorization               |
|------------|-----------------------|--------------------|------------------------------|
| PV1-1      | Set ID - PV1          | 1                  | Value-Profile Fixed          |
| PV1-2      | Patient Class         | O                  | Value-Test Case Fixed        |
| PV1-19     | Visit Number          |                    |                              |
| PV1-19.1   | ID Number             | 1111_001           | Presence-Content Indifferent |
| PV1-19.4   | Assigning Authority   |                    |                              |
| PV1-19.4.1 | Namespace ID          | BgCtyChldmUrgntCar | Presence-Content Indifferent |
| PV1-19.4.2 | Universal ID          | 1231231234         | Presence-Content Indifferent |
| PV1-19.4.3 | Universal ID Type     | NPI                | Presence-Configuration       |
| PV1-36     | Discharge Disposition |                    | NonPresence                  |
| PV1-44     | Admit Date/Time       |                    |                              |
| PV1-44.1   | Time                  | 201002200830       | Presence-Content Indifferent |

**PV2 : Patient Visit - Additional Information**

| Location | Data Element          | Data                  | Categorization            |
|----------|-----------------------|-----------------------|---------------------------|
| PV2-3    | Admit Reason          |                       |                           |
| PV2-3.1  | Identifier            |                       | Indifferent               |
| PV2-3.2  | Text                  | Fever, cough, earache | Presence-Test Case Proper |
| PV2-3.3  | Name of Coding System |                       | Indifferent               |

**OBX[\*]**

**OBX : Observation/Result**

| Location | Data Element                    | Data                | Categorization               |
|----------|---------------------------------|---------------------|------------------------------|
| OBX-1    | Set ID - OBX                    | 1                   | Value-Profile Fixed          |
| OBX-2    | Value Type                      | CWE                 | Value-Test Case Fixed        |
| OBX-3    | Observation Identifier          |                     |                              |
| OBX-3.1  | Identifier                      | SS003               | Value-Test Case Fixed        |
| OBX-3.2  | Text                            | Facility/Visit Type | Presence-Test Case Proper    |
| OBX-3.3  | Name of Coding System           | PHINQUESTION        | Value-Profile Fixed          |
| OBX-5    | Observation Value               |                     |                              |
| OBX-5.1  | Identifier                      | 261QU0200X          | Value-Test Case Fixed        |
| OBX-5.2  | Text                            | Urgent Care         | Presence-Test Case Proper    |
| OBX-5.3  | Name of Coding System           | HCPTNUCC            | Value-Profile Fixed          |
| OBX-5.4  | Alternate Identifier            |                     | Indifferent                  |
| OBX-5.5  | Alternate Text                  |                     | Indifferent                  |
| OBX-5.6  | Name of Alternate Coding System |                     | Indifferent                  |
| OBX-5.9  | Original Text                   | Urgent Care Center  | Presence-Content Indifferent |
| OBX-6    | Units                           |                     |                              |
| OBX-6.1  | Identifier                      |                     | NonPresence                  |
| OBX-6.2  | Text                            |                     | NonPresence                  |
| OBX-6.3  | Name of Coding System           |                     | NonPresence                  |
| OBX-11   | Observation Result Status       | F                   | Value-Test Case Fixed        |

**OBX : Observation/Result**

| Location | Data Element              | Data                         | Categorization            |
|----------|---------------------------|------------------------------|---------------------------|
| OBX-1    | Set ID - OBX              | 2                            | Value-Profile Fixed       |
| OBX-2    | Value Type                | NM                           | Value-Test Case Fixed     |
| OBX-3    | Observation Identifier    |                              |                           |
| OBX-3.1  | Identifier                | 21612-7                      | Value-Profile Fixed       |
| OBX-3.2  | Text                      | Age at Time Patient Reported | Presence-Test Case Proper |
| OBX-3.3  | Name of Coding System     | LN                           | Value-Profile Fixed       |
| OBX-5    | Observation Value         | 6                            | Value-Test Case Fixed     |
| OBX-6    | Units                     |                              |                           |
| OBX-6.1  | Identifier                | mo                           | Value-Test Case Fixed     |
| OBX-6.2  | Text                      | month                        | Presence-Test Case Proper |
| OBX-6.3  | Name of Coding System     | UCUM                         | Value-Profile Fixed       |
| OBX-11   | Observation Result Status | F                            | Value-Test Case Fixed     |

**OBX : Observation/Result**

| Location | Data Element              | Data   | Categorization               |
|----------|---------------------------|--|------------------------------|
| OBX-1    | Set ID - OBX              | 3  | Value-Profile Fixed          |
| OBX-2    | Value Type                | TX   | Value-Test Case Fixed        |
| OBX-3    | Observation Identifier    |  |                              |
| OBX-3.1  | Identifier                | 8661-1   | Value-Profile Fixed          |
| OBX-3.2  | Text                      | Chief complaint: Find: Pt: Patient: Nom: Reported        | Presence-Test Case Proper    |
| OBX-3.3  | Name of Coding System     | LN   | Value-Profile Fixed          |
| OBX-5    | Observation Value         | Mother states that patient has fever, cough, and earache | Presence-Content Indifferent |
| OBX-6    | Units                     |  |                              |
| OBX-6.1  | Identifier                |  | NonPresence                  |
| OBX-6.2  | Text                      |  | NonPresence                  |
| OBX-6.3  | Name of Coding System     |  | NonPresence                  |
| OBX-11   | Observation Result Status | F  | Value-Test Case Fixed        |

**OBX : Observation/Result**

| Location | Data Element              | Data    | Categorization               |
|----------|---------------------------|---------|------------------------------|
| OBX-1    | Set ID - OBX              | 4       | Value-Profile Fixed          |
| OBX-2    | Value Type                | NM      | Value-Test Case Fixed        |
| OBX-3    | Observation Identifier    |         |                              |
| OBX-3.1  | Identifier                | 8302-2  | Value-Profile Fixed          |
| OBX-3.2  | Text                      | Height  | Presence-Test Case Proper    |
| OBX-3.3  | Name of Coding System     | LN      | Value-Profile Fixed          |
| OBX-5    | Observation Value         | 27      | Presence-Content Indifferent |
| OBX-6    | Units                     |         |                              |
| OBX-6.1  | Identifier                | [in_us] | Value-Test Case Fixed        |
| OBX-6.2  | Text                      | inch    | Presence-Test Case Proper    |
| OBX-6.3  | Name of Coding System     | UCUM    | Value-Profile Fixed          |
| OBX-11   | Observation Result Status | F       | Value-Test Case Fixed        |

**OBX : Observation/Result**

| Location | Data Element              | Data    | Categorization               |
|----------|---------------------------|---------|------------------------------|
| OBX-1    | Set ID - OBX              | 5       | Value-Profile Fixed          |
| OBX-2    | Value Type                | NM      | Value-Test Case Fixed        |
| OBX-3    | Observation Identifier    |         |                              |
| OBX-3.1  | Identifier                | 3141-9  | Value-Profile Fixed          |
| OBX-3.2  | Text                      | Weight  | Presence-Test Case Proper    |
| OBX-3.3  | Name of Coding System     | LN      | Value-Profile Fixed          |
| OBX-5    | Observation Value         | 17      | Presence-Content Indifferent |
| OBX-6    | Units                     |         |                              |
| OBX-6.1  | Identifier                | [lb_av] | Value-Test Case Fixed        |
| OBX-6.2  | Text                      | pound   | Presence-Test Case Proper    |
| OBX-6.3  | Name of Coding System     | UCUM    | Value-Profile Fixed          |
| OBX-11   | Observation Result Status | F       | Value-Test Case Fixed        |

**OBX : Observation/Result**

| Location | Data Element                    | Data                   | Categorization            |
|----------|---------------------------------|------------------------|---------------------------|
| OBX-1    | Set ID - OBX                    | 6                      | Value-Profile Fixed       |
| OBX-2    | Value Type                      | CWE                    | Value-Test Case Fixed     |
| OBX-3    | Observation Identifier          |                        |                           |
| OBX-3.1  | Identifier                      | 72166-2                | Value-Profile Fixed       |
| OBX-3.2  | Text                            | Tobacco Smoking Status | Presence-Test Case Proper |
| OBX-3.3  | Name of Coding System           | LN                     | Value-Profile Fixed       |
| OBX-5    | Observation Value               |                        |                           |
| OBX-5.1  | Identifier                      | 266919005              | Value-Test Case Fixed     |
| OBX-5.2  | Text                            | Never smoker           | Presence-Test Case Proper |
| OBX-5.3  | Name of Coding System           | SCT                    | Value-Profile Fixed       |
| OBX-5.4  | Alternate Identifier            |                        | Indifferent               |
| OBX-5.5  | Alternate Text                  |                        | Indifferent               |
| OBX-5.6  | Name of Alternate Coding System |                        | Indifferent               |
| OBX-5.9  | Original Text                   |                        | Indifferent               |
| OBX-6    | Units                           |                        |                           |
| OBX-6.1  | Identifier                      |                        | NonPresence               |
| OBX-6.2  | Text                            |                        | NonPresence               |
| OBX-6.3  | Name of Coding System           |                        | NonPresence               |
| OBX-11   | Observation Result Status       | F                      | Value-Test Case Fixed     |

**DG1[\*]**

**DG1 : Diagnosis**

| Location | Data Element          | Data  | Categorization             |
|----------|-----------------------|---|----------------------------|
| DG1-1    | Set ID - DG1          | 1   | Value-Profile Fixed        |
| DG1-3    | Diagnosis Code - DG1  |   |                            |
| DG1-3.1  | Identifier            | 4871  | Value-Test Case Fixed List |
| DG1-3.2  | Text                  | Influenza with other respiratory manifestations | Presence-Test Case Proper  |
| DG1-3.3  | Name of Coding System | I9CDX   | Value-Test Case Fixed      |
| DG1-6    | Diagnosis Type        | W   | Value-Test Case Fixed      |

**DG1 : Diagnosis**

| Location | Data Element          | Data   | Categorization             |
|----------|-----------------------|--|----------------------------|
| DG1-1    | Set ID - DG1          | 2  | Value-Profile Fixed        |
| DG1-3    | Diagnosis Code - DG1  |  |                            |
| DG1-3.1  | Identifier            | 38053  | Value-Test Case Fixed List |
| DG1-3.2  | Text                  | Stenosis of external ear canal due to inflammation | Presence-Test Case Proper  |
| DG1-3.3  | Name of Coding System | I9CDX  | Value-Test Case Fixed      |
| DG1-6    | Diagnosis Type        | W  | Value-Test Case Fixed      |

**Test Data Specification****Patient Information**

| Element                     | Data                                      |
|-----------------------------|---|
| Name                        |   |
| Sex                         | Male                                      |
| Race1                       | White                                     |
| Race2                       | Asian                                     |
| Race3                       | Native Hawaiian or Other Pacific Islander |
| Ethnic Group                | Not Hispanic or Latino                    |
| City                        | Jamaica Plain                             |
| State                       | Massachusetts                             |
| Zip Code                    | 02130                                     |
| Country                     | UNITED STATES                             |
| County/Parish Code          | 25025                                     |
| Patient Death Date and Time |   |
| Patient Death Indicator     |   |

**Visit Information**

| Element                   | Data   |
|---------------------------|--|
| Admit or Encounter Reason | Fever, cough, earache                              |
| Admit Date and Time       | 02/20/2010 8:30 AM                                 |
| Patient Class             | Outpatient   |
| Diagnosis Type            | Working  |
| Diagnosis                 | Influenza with other respiratory manifestations    |
| Diagnosis                 | Stenosis of external ear canal due to inflammation |

**Observations[\*]****Observation Results Information**

| Element                    | Data  |
|----------------------------|---|
| Observation Identifier     | Facility / Visit Type                                       |
| Observation Value          | Urgent Care   |
| Units                      |   |
| Observation Results Status | Final results; Can only be changed with a corrected result. |

### Observation Results Information

| Element                    | Data  |
|----------------------------|---|
| Observation Identifier     | Age Time Patient Reported                                   |
| Observation Value          | 6   |
| Units                      | month   |
| Observation Results Status | Final results; Can only be changed with a corrected result. |

### Observation Results Information

| Element                    | Data  |
|----------------------------|---|
| Observation Identifier     | Chief complaint:Find:Pt:Patient:Nom:Reported                |
| Observation Value          | Mother states that patient has fever, cough, and earache    |
| Units                      |   |
| Observation Results Status | Final results; Can only be changed with a corrected result. |

### Observation Results Information

| Element                    | Data  |
|----------------------------|---|
| Observation Identifier     | Height  |
| Observation Value          | 27  |
| Units                      | inch  |
| Observation Results Status | Final results; Can only be changed with a corrected result. |

### Observation Results Information

| Element                    | Data  |
|----------------------------|---|
| Observation Identifier     | Weight  |
| Observation Value          | 17  |
| Units                      | pound   |
| Observation Results Status | Final results; Can only be changed with a corrected result. |

### Observation Results Information

| Element                    | Data  |
|----------------------------|---|
| Observation Identifier     | Tobacco Smoking Status                                      |
| Observation Value          | Never smoker  |
| Units                      |   |
| Observation Results Status | Final results; Can only be changed with a corrected result. |

## 1.1.2. SS-UC-1.2\_Discharge\_A03

Patient is discharged from Urgent Care Center and is assigned a final diagnosis.

### Test Story

#### Description

The patient's vital signs gradually return to normal. At 2 PM, the patient's laboratory and radiology tests results are provided to the attending physician. The tests indicate that the infant has influenza, and does not have pneumonia. The patient's mother is provided with treatment information and prescriptions for her infant son. The working diagnoses (ICD-9 CM 487.1 and 380.53) are resolved/inactivated, and at 5 PM the patient is discharged home with final diagnoses of influenza and stenosis of external ear canal due to inflammation. Big City Children's Urgent Care is an outpatient facility operated by Children's Hospital of Big City that routinely sends electronic syndromic surveillance data to the Big City Health Department (BCHD) in accordance with a city regulation. At 6:00 PM on February 20, 2010, the facility's electronic health record module for syndromic surveillance data assembles and transmits a Discharge ADT message about this patient encounter to BCHD.

#### Comments

This Test Scenario provides an example of clinical encounter that could take place in either an urgent care or emergency clinical setting. It is therefore applicable to EHR technology used in some ambulatory settings. Dates and times are provided in this test scenario to illustrate the sequence of clinical and messaging events. Since the exact dates and times are not reproducible when modeling the test scenario with EHR technology, only date and time format will be validated within tester submitted test data.

#### Pre-condition

A04-Registration message is sent before A03-Discharge message.

#### Post-Condition

No PostCondition

#### Test Objectives

This test step examines a Health IT Module's ability to create ADT^A03 Discharge message within PHIN Messaging Guide's conformance requirements.

#### Evaluation Criteria

Message Validation Report

#### Notes

Per ONC, for certification testing HIT developers must demonstrate that their system supports either the ICD-10 CM or SNOMED CT value set and are no longer required to demonstrate support for the ICD-9 CM value set (this policy is not conformant to the PHIN Syndromic Surveillance Messaging Guide, Rel2.0, April 2015).

ICD-9 CM codes still are provided in the test data for coding the final diagnoses. The HIT developer must supply equivalent ICD-10 CM or SNOMED CT code data in the test message. If the HIT developer uses ICD-10 CM or SNOMED CT codes that are equivalent to the ICD-9 CM codes provided, the Tester may ignore errors generated by the Test Tool related to incorrect code/name of coding system and must determine via visual inspection whether the ICD-10 CM or

SNOMED CT code data are valid.

ICD-10 CM diagnosis codes are acceptable with or without decimals.

Although the other units of measure for patient age are acceptable in general (and the Context-free validation accepts any of the valid units of measure for age), this Scenario specifies that "mo" for months be used in this message for the Context-based validation.

Visit Number ID (PV1-19.1) must be populated with the same value for all messages included in this Test Case to reflect the requirement in real-world installations. Test Tool does not automatically test for this requirement, so Testers must manually inspect the messages to verify that PV1-19.1 is the same for all Test Step messages for a given Test Case.

## Message Contents

MSH : Message Header

| Location | Data Element                    | Data                     | Categorization               |
|----------|---------------------------------|--------------------------|------------------------------|
| MSH-1    | Field Separator                 |                          | Value-Profile Fixed          |
| MSH-2    | Encoding Characters             | ^~\&                     | Value-Profile Fixed          |
| MSH-4    | Sending Facility                |                          |                              |
| MSH-4.1  | Namespace ID                    | ChildHospBigCity         | Presence-Configuration       |
| MSH-4.2  | Universal ID                    | 1331231234               | Presence-Configuration       |
| MSH-4.3  | Universal ID Type               | NPI                      | Presence-Configuration       |
| MSH-7    | Date/Time Of Message            |                          |                              |
| MSH-7.1  | Time                            | 201002201800             | Presence-System Generated    |
| MSH-9    | Message Type                    |                          |                              |
| MSH-9.1  | Message Code                    | ADT                      | Value-Profile Fixed          |
| MSH-9.2  | Trigger Event                   | A03                      | Value-Profile Fixed          |
| MSH-9.3  | Message Structure               | ADT_A03                  | Value-Profile Fixed          |
| MSH-10   | Message Control ID              | NIST-SS-001.21           | Presence-System Generated    |
| MSH-11   | Processing ID                   |                          |                              |
| MSH-11.1 | Processing ID                   | P                        | Presence-Content Indifferent |
| MSH-12   | Version ID                      |                          |                              |
| MSH-12.1 | Version ID                      | 2.5.1                    | Value-Profile Fixed          |
| MSH-15   | Accept Acknowledgment Type      | AL                       | Value-Profile Fixed          |
| MSH-16   | Application Acknowledgment Type | AL                       | Presence-Content Indifferent |
| MSH-21   | Message Profile Identifier      |                          |                              |
| MSH-21.1 | Entity Identifier               | PH_SS-Ack                | Value-Profile Fixed          |
| MSH-21.2 | Namespace ID                    | SS Sender                | Value-Profile Fixed          |
| MSH-21.3 | Universal ID                    | 2.16.840.1.114222.4.10.3 | Value-Profile Fixed          |
| MSH-21.4 | Universal ID Type               | ISO                      | Value-Profile Fixed          |

EVN : Event Type

| Location | Data Element       | Data               | Categorization               |
|----------|--------------------|--------------------|------------------------------|
| EVN-2    | Recorded Date/Time |                    |                              |
| EVN-2.1  | Time               | 201002201800       | Presence-System Generated    |
| EVN-7    | Event Facility     |                    |                              |
| EVN-7.1  | Namespace ID       | BgCtyChldmUrgntCar | Presence-Content Indifferent |
| EVN-7.2  | Universal ID       | 1231231234         | Presence-Content Indifferent |
| EVN-7.3  | Universal ID Type  | NPI                | Presence-Configuration       |



**PID : Patient Identification**

| Location    | Data Element            | Data                                      | Categorization               |
|-------------|-------------------------|---|------------------------------|
| PID-1       | Set ID - PID            | 1   | Value-Profile Fixed          |
| PID-3       | Patient Identifier List |   |                              |
| PID-3.1     | ID Number               | 11111                                     | Presence-Content Indifferent |
| PID-3.4     | Assigning Authority     |   |                              |
| PID-3.4.1   | Namespace ID            | BgCtyChldmUrgntCar                        | Presence-Content Indifferent |
| PID-3.4.2   | Universal ID            | 1231231234                                | Presence-Content Indifferent |
| PID-3.4.3   | Universal ID Type       | NPI                                       | Presence-Configuration       |
| PID-5[1]    | Patient Name            |   |                              |
| PID-5[1].7  | Name Type Code          |   | NonPresence                  |
| PID-5[2]    | Patient Name            |   |                              |
| PID-5[2].7  | Name Type Code          | S   | Value-Test Case Fixed        |
| PID-8       | Administrative Sex      | M   | Value-Test Case Fixed        |
| PID-10[1]   | Race                    |   |                              |
| PID-10[1].1 | Identifier              | 2106-3                                    | Value-Test Case Fixed        |
| PID-10[1].2 | Text                    | White                                     | Presence-Test Case Proper    |
| PID-10[1].3 | Name of Coding System   | CDCREC                                    | Value-Profile Fixed          |
| PID-10[2]   | Race                    |   |                              |
| PID-10[2].1 | Identifier              | 2028-9                                    | Value-Test Case Fixed        |
| PID-10[2].2 | Text                    | Asian                                     | Presence-Test Case Proper    |
| PID-10[2].3 | Name of Coding System   | CDCREC                                    | Value-Profile Fixed          |
| PID-10[3]   | Race                    |   |                              |
| PID-10[3].1 | Identifier              | 2076-8                                    | Value-Test Case Fixed        |
| PID-10[3].2 | Text                    | Native Hawaiian or Other Pacific Islander | Presence-Test Case Proper    |
| PID-10[3].3 | Name of Coding System   | CDCREC                                    | Value-Profile Fixed          |
| PID-11      | Patient Address         |   |                              |
| PID-11.3    | City                    | Jamaica Plain                             | Presence-Content Indifferent |
| PID-11.4    | State or Province       | 25  | Presence-Content Indifferent |
| PID-11.5    | Zip or Postal Code      | 02130                                     | Presence-Content Indifferent |
| PID-11.6    | Country                 | USA                                       | Presence-Content Indifferent |
| PID-11.9    | County/Parish Code      | 25025                                     | Presence-Content Indifferent |
| PID-22      | Ethnic Group            |   |                              |
| PID-22.1    | Identifier              | 2186-5                                    | Value-Test Case Fixed        |
| PID-22.2    | Text                    | Not Hispanic or Latino                    | Presence-Test Case Proper    |
| PID-22.3    | Name of Coding System   | CDCREC                                    | Value-Profile Fixed          |

**PV1 : Patient Visit**

| Location   | Data Element          | Data               | Categorization               |
|------------|-----------------------|--------------------|------------------------------|
| PV1-1      | Set ID - PV1          | 1                  | Value-Profile Fixed          |
| PV1-2      | Patient Class         | O                  | Value-Test Case Fixed        |
| PV1-19     | Visit Number          |                    |                              |
| PV1-19.1   | ID Number             | 1111_001           | Presence-Content Indifferent |
| PV1-19.4   | Assigning Authority   |                    |                              |
| PV1-19.4.1 | Namespace ID          | BgCtyChldmUrgntCar | Presence-Content Indifferent |
| PV1-19.4.2 | Universal ID          | 1231231234         | Presence-Content Indifferent |
| PV1-19.4.3 | Universal ID Type     | NPI                | Presence-Configuration       |
| PV1-36     | Discharge Disposition | 01                 | Value-Test Case Fixed        |
| PV1-44     | Admit Date/Time       |                    |                              |
| PV1-44.1   | Time                  | 201002200830       | Presence-Content Indifferent |
| PV1-45     | Discharge Date/Time   |                    |                              |
| PV1-45.1   | Time                  | 201002201700       | Presence-Content Indifferent |

**PV2 : Patient Visit - Additional Information**

| Location | Data Element          | Data                  | Categorization            |
|----------|-----------------------|-----------------------|---------------------------|
| PV2-3    | Admit Reason          |                       |                           |
| PV2-3.1  | Identifier            |                       | Indifferent               |
| PV2-3.2  | Text                  | Fever, cough, earache | Presence-Test Case Proper |
| PV2-3.3  | Name of Coding System |                       | Indifferent               |

**DG1[\*]**

**DG1 : Diagnosis**

| Location | Data Element          | Data  | Categorization             |
|----------|-----------------------|---|----------------------------|
| DG1-1    | Set ID - DG1          | 1   | Value-Profile Fixed        |
| DG1-3    | Diagnosis Code - DG1  |   |                            |
| DG1-3.1  | Identifier            | 4871  | Value-Test Case Fixed List |
| DG1-3.2  | Text                  | Influenza with other respiratory manifestations | Presence-Test Case Proper  |
| DG1-3.3  | Name of Coding System | I9CDX   | Value-Test Case Fixed      |
| DG1-6    | Diagnosis Type        | F   | Value-Test Case Fixed      |

**DG1 : Diagnosis**

| Location | Data Element          | Data   | Categorization             |
|----------|-----------------------|--|----------------------------|
| DG1-1    | Set ID - DG1          | 2  | Value-Profile Fixed        |
| DG1-3    | Diagnosis Code - DG1  |  |                            |
| DG1-3.1  | Identifier            | 38053  | Value-Test Case Fixed List |
| DG1-3.2  | Text                  | Stenosis of external ear canal due to inflammation | Presence-Test Case Proper  |
| DG1-3.3  | Name of Coding System | I9CDX  | Value-Test Case Fixed      |
| DG1-6    | Diagnosis Type        | F  | Value-Test Case Fixed      |

**OBX[\*]**

**OBX : Observation/Result**

| Location | Data Element                    | Data                | Categorization               |
|----------|---------------------------------|---------------------|------------------------------|
| OBX-1    | Set ID - OBX                    | 1                   | Value-Profile Fixed          |
| OBX-2    | Value Type                      | CWE                 | Value-Test Case Fixed        |
| OBX-3    | Observation Identifier          |                     |                              |
| OBX-3.1  | Identifier                      | SS003               | Value-Profile Fixed          |
| OBX-3.2  | Text                            | Facility/Visit Type | Presence-Test Case Proper    |
| OBX-3.3  | Name of Coding System           | PHINQUESTION        | Value-Profile Fixed          |
| OBX-5    | Observation Value               |                     |                              |
| OBX-5.1  | Identifier                      | 261QU0200X          | Value-Test Case Fixed        |
| OBX-5.2  | Text                            | Urgent Care         | Presence-Test Case Proper    |
| OBX-5.3  | Name of Coding System           | HCPTNUCC            | Value-Profile Fixed          |
| OBX-5.4  | Alternate Identifier            |                     | Indifferent                  |
| OBX-5.5  | Alternate Text                  |                     | Indifferent                  |
| OBX-5.6  | Name of Alternate Coding System |                     | Indifferent                  |
| OBX-5.9  | Original Text                   | Urgent Care Center  | Presence-Content Indifferent |
| OBX-6    | Units                           |                     |                              |
| OBX-6.1  | Identifier                      |                     | NonPresence                  |
| OBX-6.2  | Text                            |                     | NonPresence                  |
| OBX-6.3  | Name of Coding System           |                     | NonPresence                  |
| OBX-11   | Observation Result Status       | F                   | Value-Test Case Fixed        |

**OBX : Observation/Result**

| Location | Data Element              | Data                         | Categorization            |
|----------|---------------------------|------------------------------|---------------------------|
| OBX-1    | Set ID - OBX              | 2                            | Value-Profile Fixed       |
| OBX-2    | Value Type                | NM                           | Value-Test Case Fixed     |
| OBX-3    | Observation Identifier    |                              |                           |
| OBX-3.1  | Identifier                | 21612-7                      | Value-Profile Fixed       |
| OBX-3.2  | Text                      | Age at Time Patient Reported | Presence-Test Case Proper |
| OBX-3.3  | Name of Coding System     | LN                           | Value-Profile Fixed       |
| OBX-5    | Observation Value         | 6                            | Value-Test Case Fixed     |
| OBX-6    | Units                     |                              |                           |
| OBX-6.1  | Identifier                | mo                           | Value-Test Case Fixed     |
| OBX-6.2  | Text                      | month                        | Presence-Test Case Proper |
| OBX-6.3  | Name of Coding System     | UCUM                         | Value-Profile Fixed       |
| OBX-11   | Observation Result Status | F                            | Value-Test Case Fixed     |

**OBX : Observation/Result**

| Location | Data Element              | Data   | Categorization               |
|----------|---------------------------|--|------------------------------|
| OBX-1    | Set ID - OBX              | 3  | Value-Profile Fixed          |
| OBX-2    | Value Type                | TX   | Value-Test Case Fixed        |
| OBX-3    | Observation Identifier    |  |                              |
| OBX-3.1  | Identifier                | 8661-1   | Value-Profile Fixed          |
| OBX-3.2  | Text                      | Chief complaint: Find: Pt: Patient: Nom: Reported        | Presence-Test Case Proper    |
| OBX-3.3  | Name of Coding System     | LN   | Value-Profile Fixed          |
| OBX-5    | Observation Value         | Mother states that patient has fever, cough, and earache | Presence-Content Indifferent |
| OBX-6    | Units                     |  |                              |
| OBX-6.1  | Identifier                |  | NonPresence                  |
| OBX-6.2  | Text                      |  | NonPresence                  |
| OBX-6.3  | Name of Coding System     |  | NonPresence                  |
| OBX-11   | Observation Result Status | F  | Value-Test Case Fixed        |

**OBX : Observation/Result**

| Location | Data Element              | Data    | Categorization               |
|----------|---------------------------|---------|------------------------------|
| OBX-1    | Set ID - OBX              | 4       | Value-Profile Fixed          |
| OBX-2    | Value Type                | NM      | Value-Test Case Fixed        |
| OBX-3    | Observation Identifier    |         |                              |
| OBX-3.1  | Identifier                | 8302-2  | Value-Profile Fixed          |
| OBX-3.2  | Text                      | Height  | Presence-Test Case Proper    |
| OBX-3.3  | Name of Coding System     | LN      | Value-Profile Fixed          |
| OBX-5    | Observation Value         | 27      | Presence-Content Indifferent |
| OBX-6    | Units                     |         |                              |
| OBX-6.1  | Identifier                | [in_us] | Value-Test Case Fixed        |
| OBX-6.2  | Text                      | inch    | Presence-Test Case Proper    |
| OBX-6.3  | Name of Coding System     | UCUM    | Value-Profile Fixed          |
| OBX-11   | Observation Result Status | F       | Value-Test Case Fixed        |

**OBX : Observation/Result**

| Location | Data Element              | Data    | Categorization               |
|----------|---------------------------|---------|------------------------------|
| OBX-1    | Set ID - OBX              | 5       | Value-Profile Fixed          |
| OBX-2    | Value Type                | NM      | Value-Test Case Fixed        |
| OBX-3    | Observation Identifier    |         |                              |
| OBX-3.1  | Identifier                | 3141-9  | Value-Profile Fixed          |
| OBX-3.2  | Text                      | Weight  | Presence-Test Case Proper    |
| OBX-3.3  | Name of Coding System     | LN      | Value-Profile Fixed          |
| OBX-5    | Observation Value         | 17      | Presence-Content Indifferent |
| OBX-6    | Units                     |         |                              |
| OBX-6.1  | Identifier                | [lb_av] | Value-Test Case Fixed        |
| OBX-6.2  | Text                      | pound   | Presence-Test Case Proper    |
| OBX-6.3  | Name of Coding System     | UCUM    | Value-Profile Fixed          |
| OBX-11   | Observation Result Status | F       | Value-Test Case Fixed        |

**OBX : Observation/Result**

| Location | Data Element                    | Data                   | Categorization            |
|----------|---------------------------------|------------------------|---------------------------|
| OBX-1    | Set ID - OBX                    | 6                      | Value-Profile Fixed       |
| OBX-2    | Value Type                      | CWE                    | Value-Test Case Fixed     |
| OBX-3    | Observation Identifier          |                        |                           |
| OBX-3.1  | Identifier                      | 72166-2                | Value-Profile Fixed       |
| OBX-3.2  | Text                            | Tobacco Smoking Status | Presence-Test Case Proper |
| OBX-3.3  | Name of Coding System           | LN                     | Value-Profile Fixed       |
| OBX-5    | Observation Value               |                        |                           |
| OBX-5.1  | Identifier                      | 266919005              | Value-Test Case Fixed     |
| OBX-5.2  | Text                            | Never smoker           | Presence-Test Case Proper |
| OBX-5.3  | Name of Coding System           | SCT                    | Value-Profile Fixed       |
| OBX-5.4  | Alternate Identifier            |                        | Indifferent               |
| OBX-5.5  | Alternate Text                  |                        | Indifferent               |
| OBX-5.6  | Name of Alternate Coding System |                        | Indifferent               |
| OBX-5.9  | Original Text                   |                        | Indifferent               |
| OBX-6    | Units                           |                        |                           |
| OBX-6.1  | Identifier                      |                        | NonPresence               |
| OBX-6.2  | Text                            |                        | NonPresence               |
| OBX-6.3  | Name of Coding System           |                        | NonPresence               |
| OBX-11   | Observation Result Status       | F                      | Value-Test Case Fixed     |

## Test Data Specification

### Patient Information

| Element                     | Data                                      |
|-----------------------------|---|
| Name                        | Coded Pseudo-Name to ensure anonymity     |
| Sex                         | Male                                      |
| Race1                       | White                                     |
| Race2                       | Asian                                     |
| Race3                       | Native Hawaiian or Other Pacific Islander |
| Ethnic Group                | Not Hispanic or Latino                    |
| City                        | Jamaica Plain                             |
| State                       | Massachusetts                             |
| Zip Code                    | 02130                                     |
| Country                     | UNITED STATES                             |
| County/Parish Code          | 25025                                     |
| Patient Death Date and Time |   |
| Patient Death Indicator     |   |

### Visit Information

| Element                   | Data  |
|---------------------------|---|
| Admit or Encounter Reason | Fever, cough, earache                               |
| Admit Date and Time       | 02/20/2010 8:30 AM                                  |
| Patient Class             | Outpatient  |
| Discharge Disposition     | Discharged to home or self care (routine discharge) |
| Discharge Date/Time       | 02/20/2010 5:00 PM                                  |
| Diagnosis Type            | Final   |
| Diagnosis                 | Influenza with other respiratory manifestations     |
| Diagnosis                 | Stenosis of external ear canal due to inflammation  |

### Observations[\*]

#### Observation Results Information

| Element                    | Data  |
|----------------------------|---|
| Observation Identifier     | Facility / Visit Type                                       |
| Observation Value          | Urgent Care   |
| Units                      |   |
| Observation Results Status | Final results; Can only be changed with a corrected result. |

#### Observation Results Information

| Element                    | Data  |
|----------------------------|---|
| Observation Identifier     | Age Time Patient Reported                                   |
| Observation Value          | 6   |
| Units                      | month   |
| Observation Results Status | Final results; Can only be changed with a corrected result. |

### Observation Results Information

| Element                    | Data  |
|----------------------------|---|
| Observation Identifier     | Chief complaint:Find:Pt:Patient:Nom:Reported                |
| Observation Value          | Mother states that patient has fever, cough, and earache    |
| Units                      |   |
| Observation Results Status | Final results; Can only be changed with a corrected result. |

### Observation Results Information

| Element                    | Data  |
|----------------------------|---|
| Observation Identifier     | Height  |
| Observation Value          | 27  |
| Units                      | inch  |
| Observation Results Status | Final results; Can only be changed with a corrected result. |

### Observation Results Information

| Element                    | Data  |
|----------------------------|---|
| Observation Identifier     | Weight  |
| Observation Value          | 17  |
| Units                      | pound   |
| Observation Results Status | Final results; Can only be changed with a corrected result. |

### Observation Results Information

| Element                    | Data  |
|----------------------------|---|
| Observation Identifier     | Tobacco Smoking Status                                      |
| Observation Value          | Never smoker  |
| Units                      |   |
| Observation Results Status | Final results; Can only be changed with a corrected result. |

## 2. ED Visit with Mortality

Patient seen in ED and dies.

### Test Story

|                     |
|---------------------|
| Description         |
| null                |
| Comments            |
| null                |
| Pre-condition       |
| null                |
| Post-Condition      |
| null                |
| Test Objectives     |
| null                |
| Evaluation Criteria |
| null                |
| Notes               |
| null                |

## 2.1. SS-ED-2\_ED\_Visit\_Patient\_Dies

Patient visits ED and dies of head injuries.

### Test Story

#### Description

Syndromic surveillance is public health surveillance that emphasizes the use of near "real-time" health data and statistical tools for disease or hazardous event detection, situation awareness for mass gatherings and public health emergencies, and ad hoc and population health trend analyses. For syndromic surveillance purposes, required data on all clinical encounters must be sent to the jurisdictional public health agency within 24 hours of any given encounter, and in accordance with local or state laws and practices.

The ED Visit Test Case provides an example of an ED visit where the patient's demographic information is unavailable at registration, admit/encounter reason is captured as a coded value using an ICD-10 CM code, a working diagnosis and a final diagnosis are captured using ICD-10 CM codes, and the patient dies.

In this test case, an unconscious, unknown female patient is brought to an emergency department by ambulance after she sustained critical head and neck injuries due to a collision with a bus while she was riding a bicycle. She is placed on a ventilator, diagnosed as having severe head trauma, and expires from her injuries. Syndromic surveillance data about the visit are transmitted to the state health department.

This test case involves 3 steps: a registration message (ADT^A04), an update message (ADT^A08), and a discharge message (ADT^A03).

#### Comments

No Comments

#### Pre-condition

No PreCondition

#### Post-Condition

No PostCondition

#### Test Objectives

No Test Objectives

#### Evaluation Criteria

No evaluation criteria

#### Notes

No Note



## 2.1.1. SS-ED-2.1\_Registration\_A04

Patient is registered in the ED.

### Test Story

#### Description

An unconscious white female with critical injuries to her head and neck is brought by ambulance to Western Regional Medical Center's Emergency Department at 5:00 PM on July 17, 2012. The paramedics report that the patient turned her bicycle in to a bus moving at 35 mph. The collision threw the cyclist, who was not wearing a helmet, head first to the ground. The patient's vital signs are stable, but she is on ventilation. Unable to find any identification, the patient is registered without her true name, date of birth, race, ethnicity, insurance information, and health history. Her admit/encounter reason is logged as V13.4XXA (Pedal cycle driver injured in collision with car, pick-up truck or van in traffic accident, initial encounter). No working diagnoses are assigned. Western Regional Medical Center reports syndromic surveillance data to the state health department (SHD). At 5:00 PM on July 17, 2012 the hospital's electronic health record module for syndromic surveillance data assembles and transmits an ADT^A04 Registration message about this encounter to SHD.

#### Comments

This Test Case provides an example of an ED visit where the patient's demographic information is unavailable at registration, admit/encounter reason is captured as a coded value using an ICD-10 CM code, two working diagnoses and a final diagnosis are captured using ICD-10 CM codes, and the patient dies. The dates and times in this test case illustrate the sequence of clinical and messaging events. Since the exact dates and times are not reproducible when modeling the test case with a Health IT Module, only date and time format will be validated within tester submitted test data.

#### Pre-condition

No PreCondition

#### Post-Condition

No PostCondition

#### Test Objectives

This test step examines a Health IT Module's ability to create ADT^A04 Registration message within PHIN Syndromic Surveillance Messaging Guide's conformance requirements.

#### Evaluation Criteria

Message Validation Report

#### Notes

Per ONC, for certification testing HIT developers must demonstrate that their system supports either the ICD-10 CM or SNOMED CT value set and are no longer required to demonstrate support for the ICD-9 CM value set (this policy is not conformant to the PHIN Syndromic Surveillance Messaging Guide, Rel2.0, April 2015).

An ICD-10 CM code is provided in the test data for coding the admit/encounter reason. If the HIT developer uses a different but equivalent ICD-10 CM code than the one provided or uses an equivalent SNOMED CT code, the Tester may ignore errors generated by the Test Tool related to

incorrect code/name of coding system when the ICD-10 CM or SNOMED CT code data used in the message are determined via visual inspection to be valid data.

ICD-10 CM codes are acceptable with or without decimals.

Visit Number ID (PV1-19.1) must be populated with the same value for all messages included in this Test Case to reflect the requirement in real-world installations. Test Tool does not automatically test for this requirement, so Testers must manually inspect the messages to verify that PV1-19.1 is the same for all Test Step messages for a given Test Case.

## Message Contents

### MSH : Message Header

| Location | Data Element                    | Data                     | Categorization               |
|----------|---------------------------------|--------------------------|------------------------------|
| MSH-1    | Field Separator                 |                          | Value-Profile Fixed          |
| MSH-2    | Encoding Characters             | ^~\&                     | Value-Profile Fixed          |
| MSH-4    | Sending Facility                |                          |                              |
| MSH-4.1  | Namespace ID                    | WstrnRgnlMedCntr         | Presence-Configuration       |
| MSH-4.2  | Universal ID                    | 1231231235               | Presence-Configuration       |
| MSH-4.3  | Universal ID Type               | NPI                      | Presence-Configuration       |
| MSH-7    | Date/Time Of Message            |                          |                              |
| MSH-7.1  | Time                            | 201207171700             | Presence-System Generated    |
| MSH-9    | Message Type                    |                          |                              |
| MSH-9.1  | Message Code                    | ADT                      | Value-Profile Fixed          |
| MSH-9.2  | Trigger Event                   | A04                      | Value-Profile Fixed          |
| MSH-9.3  | Message Structure               | ADT_A01                  | Value-Profile Fixed          |
| MSH-10   | Message Control ID              | NIST-SS-002.11           | Presence-System Generated    |
| MSH-11   | Processing ID                   |                          |                              |
| MSH-11.1 | Processing ID                   | P                        | Presence-Content Indifferent |
| MSH-12   | Version ID                      |                          |                              |
| MSH-12.1 | Version ID                      | 2.5.1                    | Value-Profile Fixed          |
| MSH-15   | Accept Acknowledgment Type      | AL                       | Value-Profile Fixed          |
| MSH-16   | Application Acknowledgment Type |                          | Indifferent                  |
| MSH-21   | Message Profile Identifier      |                          |                              |
| MSH-21.1 | Entity Identifier               | PH_SS-Ack                | Value-Profile Fixed          |
| MSH-21.2 | Namespace ID                    | SS Sender                | Value-Profile Fixed          |
| MSH-21.3 | Universal ID                    | 2.16.840.1.114222.4.10.3 | Value-Profile Fixed          |
| MSH-21.4 | Universal ID Type               | ISO                      | Value-Profile Fixed          |

### EVN : Event Type

| Location | Data Element       | Data             | Categorization            |
|----------|--------------------|------------------|---------------------------|
| EVN-2    | Recorded Date/Time |                  |                           |
| EVN-2.1  | Time               | 201207171700     | Presence-System Generated |
| EVN-7    | Event Facility     |                  |                           |
| EVN-7.1  | Namespace ID       | WstrnRgnlMedCntr | Presence-Configuration    |
| EVN-7.2  | Universal ID       | 1231231235       | Presence-Configuration    |
| EVN-7.3  | Universal ID Type  | NPI              | Presence-Configuration    |

**PID : Patient Identification**

| Location   | Data Element            | Data             | Categorization               |
|------------|-------------------------|------------------|------------------------------|
| PID-1      | Set ID - PID            | 1                | Value-Profile Fixed          |
| PID-3      | Patient Identifier List |                  |                              |
| PID-3.1    | ID Number               | 222              | Presence-Content Indifferent |
| PID-3.4    | Assigning Authority     |                  |                              |
| PID-3.4.1  | Namespace ID            | WstrnRgnlMedCntr | Presence-Content Indifferent |
| PID-3.4.2  | Universal ID            | 1231231235       | Presence-Content Indifferent |
| PID-3.4.3  | Universal ID Type       | NPI              | Presence-Configuration       |
| PID-5[1]   | Patient Name            |                  |                              |
| PID-5[1].7 | Name Type Code          |                  | NonPresence                  |
| PID-5[2]   | Patient Name            |                  |                              |
| PID-5[2].7 | Name Type Code          | U                | Value-Test Case Fixed        |
| PID-8      | Administrative Sex      | F                | Value-Test Case Fixed        |
| PID-10     | Race                    |                  |                              |
| PID-10.1   | Identifier              | 2106-3           | Value-Test Case Fixed        |
| PID-10.2   | Text                    | White            | Presence-Test Case Proper    |
| PID-10.3   | Name of Coding System   | CDCREC           | Value-Profile Fixed          |
| PID-11     | Patient Address         |                  |                              |
| PID-11.3   | City                    |                  | Indifferent                  |
| PID-11.4   | State or Province       |                  | Indifferent                  |
| PID-11.5   | Zip or Postal Code      |                  | Indifferent                  |
| PID-11.6   | Country                 |                  | Indifferent                  |
| PID-11.9   | County/Parish Code      |                  | Indifferent                  |
| PID-22     | Ethnic Group            |                  |                              |
| PID-22.1   | Identifier              |                  | Indifferent                  |
| PID-22.2   | Text                    |                  | Indifferent                  |
| PID-22.3   | Name of Coding System   |                  | Indifferent                  |

**PV1 : Patient Visit**

| Location   | Data Element          | Data             | Categorization               |
|------------|-----------------------|------------------|------------------------------|
| PV1-1      | Set ID - PV1          | 1                | Value-Profile Fixed          |
| PV1-2      | Patient Class         | E                | Value-Test Case Fixed        |
| PV1-19     | Visit Number          |                  |                              |
| PV1-19.1   | ID Number             | 20120709_0064    | Presence-Content Indifferent |
| PV1-19.4   | Assigning Authority   |                  |                              |
| PV1-19.4.1 | Namespace ID          | WstrnRgnlMedCntr | Presence-Content Indifferent |
| PV1-19.4.2 | Universal ID          | 1231231235       | Presence-Content Indifferent |
| PV1-19.4.3 | Universal ID Type     | NPI              | Presence-Configuration       |
| PV1-36     | Discharge Disposition |                  | NonPresence                  |
| PV1-44     | Admit Date/Time       |                  |                              |
| PV1-44.1   | Time                  | 201207171700     | Presence-Content Indifferent |

**PV2 : Patient Visit - Additional Information**

| Location | Data Element          | Data  | Categorization             |
|----------|-----------------------|---|----------------------------|
| PV2-3    | Admit Reason          |   |                            |
| PV2-3.1  | Identifier            | V134XXA   | Value-Test Case Fixed List |
| PV2-3.2  | Text                  | Pedal cycle driver injured in collision with car, pick-up truck or van in traffic accident, initial encounter | Presence-Test Case Proper  |
| PV2-3.3  | Name of Coding System | I10C  | Value-Test Case Fixed      |

**OBX[\*]**

**OBX : Observation/Result**

| Location | Data Element                    | Data                | Categorization            |
|----------|---------------------------------|---------------------|---------------------------|
| OBX-1    | Set ID - OBX                    | 1                   | Value-Profile Fixed       |
| OBX-2    | Value Type                      | CWE                 | Value-Test Case Fixed     |
| OBX-3    | Observation Identifier          |                     |                           |
| OBX-3.1  | Identifier                      | SS003               | Value-Test Case Fixed     |
| OBX-3.2  | Text                            | Facility/Visit Type | Presence-Test Case Proper |
| OBX-3.3  | Name of Coding System           | PHINQUESTION        | Value-Profile Fixed       |
| OBX-5    | Observation Value               |                     |                           |
| OBX-5.1  | Identifier                      | 261QE0002X          | Value-Test Case Fixed     |
| OBX-5.2  | Text                            | Emergency Care      | Presence-Test Case Proper |
| OBX-5.3  | Name of Coding System           | HCPTNUCC            | Value-Profile Fixed       |
| OBX-5.4  | Alternate Identifier            |                     | Indifferent               |
| OBX-5.5  | Alternate Text                  |                     | Indifferent               |
| OBX-5.6  | Name of Alternate Coding System |                     | Indifferent               |
| OBX-5.9  | Original Text                   |                     | Indifferent               |
| OBX-6    | Units                           |                     |                           |
| OBX-6.1  | Identifier                      |                     | NonPresence               |
| OBX-6.2  | Text                            |                     | NonPresence               |
| OBX-6.3  | Name of Coding System           |                     | NonPresence               |
| OBX-11   | Observation Result Status       | F                   | Value-Test Case Fixed     |

**OBX : Observation/Result**

| Location | Data Element              | Data                         | Categorization            |
|----------|---------------------------|------------------------------|---------------------------|
| OBX-1    | Set ID - OBX              | 2                            | Value-Profile Fixed       |
| OBX-2    | Value Type                | NM                           | Value-Test Case Fixed     |
| OBX-3    | Observation Identifier    |                              |                           |
| OBX-3.1  | Identifier                | 21612-7                      | Value-Profile Fixed       |
| OBX-3.2  | Text                      | Age at Time Patient Reported | Presence-Test Case Proper |
| OBX-3.3  | Name of Coding System     | LN                           | Value-Profile Fixed       |
| OBX-5    | Observation Value         |                              | NonPresence               |
| OBX-6    | Units                     |                              |                           |
| OBX-6.1  | Identifier                | UNK                          | Value-Test Case Fixed     |
| OBX-6.2  | Text                      | Unknown                      | Presence-Test Case Proper |
| OBX-6.3  | Name of Coding System     | NULLFL                       | Value-Profile Fixed       |
| OBX-11   | Observation Result Status | F                            | Value-Test Case Fixed     |

**OBX : Observation/Result**

| Location | Data Element              | Data    | Categorization            |
|----------|---------------------------|---------|---------------------------|
| OBX-1    | Set ID - OBX              | 3       | Value-Profile Fixed       |
| OBX-2    | Value Type                | NM      | Value-Test Case Fixed     |
| OBX-3    | Observation Identifier    |         |                           |
| OBX-3.1  | Identifier                | 8302-2  | Value-Profile Fixed       |
| OBX-3.2  | Text                      | Height  | Presence-Test Case Proper |
| OBX-3.3  | Name of Coding System     | LN      | Value-Profile Fixed       |
| OBX-5    | Observation Value         | 65      | Value-Test Case Fixed     |
| OBX-6    | Units                     |         |                           |
| OBX-6.1  | Identifier                | [in_us] | Value-Test Case Fixed     |
| OBX-6.2  | Text                      | inch    | Presence-Test Case Proper |
| OBX-6.3  | Name of Coding System     | UCUM    | Value-Profile Fixed       |
| OBX-11   | Observation Result Status | F       | Value-Test Case Fixed     |

**OBX : Observation/Result**

| Location | Data Element              | Data    | Categorization            |
|----------|---------------------------|---------|---------------------------|
| OBX-1    | Set ID - OBX              | 4       | Value-Profile Fixed       |
| OBX-2    | Value Type                | NM      | Value-Test Case Fixed     |
| OBX-3    | Observation Identifier    |         |                           |
| OBX-3.1  | Identifier                | 3141-9  | Value-Profile Fixed       |
| OBX-3.2  | Text                      | Weight  | Presence-Test Case Proper |
| OBX-3.3  | Name of Coding System     | LN      | Value-Profile Fixed       |
| OBX-5    | Observation Value         | 128     | Value-Test Case Fixed     |
| OBX-6    | Units                     |         |                           |
| OBX-6.1  | Identifier                | [lb_av] | Value-Test Case Fixed     |
| OBX-6.2  | Text                      | pound   | Presence-Test Case Proper |
| OBX-6.3  | Name of Coding System     | UCUM    | Value-Profile Fixed       |
| OBX-11   | Observation Result Status | F       | Value-Test Case Fixed     |

**OBX : Observation/Result**

| Location | Data Element                    | Data                   | Categorization            |
|----------|---------------------------------|------------------------|---------------------------|
| OBX-1    | Set ID - OBX                    | 5                      | Value-Profile Fixed       |
| OBX-2    | Value Type                      | CWE                    | Value-Test Case Fixed     |
| OBX-3    | Observation Identifier          |                        |                           |
| OBX-3.1  | Identifier                      | 72166-2                | Value-Test Case Fixed     |
| OBX-3.2  | Text                            | Tobacco Smoking Status | Presence-Test Case Proper |
| OBX-3.3  | Name of Coding System           | LN                     | Value-Profile Fixed       |
| OBX-5    | Observation Value               |                        |                           |
| OBX-5.1  | Identifier                      | 266927001              | Value-Test Case Fixed     |
| OBX-5.2  | Text                            | Unknown if ever smoked | Presence-Test Case Proper |
| OBX-5.3  | Name of Coding System           | SCT                    | Value-Profile Fixed       |
| OBX-5.4  | Alternate Identifier            |                        | Indifferent               |
| OBX-5.5  | Alternate Text                  |                        | Indifferent               |
| OBX-5.6  | Name of Alternate Coding System |                        | Indifferent               |
| OBX-5.9  | Original Text                   |                        | Indifferent               |
| OBX-6    | Units                           |                        |                           |
| OBX-6.1  | Identifier                      |                        | NonPresence               |
| OBX-6.2  | Text                            |                        | NonPresence               |
| OBX-6.3  | Name of Coding System           |                        | NonPresence               |
| OBX-11   | Observation Result Status       | F                      | Value-Test Case Fixed     |

## Test Data Specification

### Patient Information

| Element                     | Data        |
|-----------------------------|-------------|
| Name                        | Unspecified |
| Sex                         | Female      |
| Race                        | White       |
| City                        |             |
| State                       |             |
| Zip Code                    |             |
| Country                     |             |
| County/Parish Code          |             |
| Patient Death Date and Time |             |
| Patient Death Indicator     |             |

### Visit Information

| Element                   | Data  |
|---------------------------|---|
| Admit or Encounter Reason | Pedal cycle driver injured in collision with car, pick-up truck or van in traffic accident, initial encounter |
| Admit Date and Time       | 07/17/2012 5:00 PM  |
| Patient Class             | Emergency   |
| Diagnosis Type            |   |

## Observations[\*]

### Observation Results Information

| Element                    | Data  |
|----------------------------|---|
| Observation Identifier     | Facility / Visit Type                                       |
| Observation Value          | Emergency Care  |
| Units                      |   |
| Observation Results Status | Final results; Can only be changed with a corrected result. |

### Observation Results Information

| Element                    | Data  |
|----------------------------|---|
| Observation Identifier     | Age Time Patient Reported                                   |
| Observation Value          |   |
| Units                      | Unknown   |
| Observation Results Status | Final results; Can only be changed with a corrected result. |

### Observation Results Information

| Element                    | Data  |
|----------------------------|---|
| Observation Identifier     | Height  |
| Observation Value          | 65  |
| Units                      | inch  |
| Observation Results Status | Final results; Can only be changed with a corrected result. |

### Observation Results Information

| Element                    | Data  |
|----------------------------|---|
| Observation Identifier     | Weight  |
| Observation Value          | 128   |
| Units                      | pound   |
| Observation Results Status | Final results; Can only be changed with a corrected result. |

### Observation Results Information

| Element                    | Data  |
|----------------------------|---|
| Observation Identifier     | Tobacco Smoking Status                                      |
| Observation Value          | Unknown if ever smoked                                      |
| Units                      |   |
| Observation Results Status | Final results; Can only be changed with a corrected result. |

## 2.1.2. SS-ED-2.2\_Update\_A08

ED sends updated Syndromic Surveillance message to state health department.

### Test Story

#### Description

Physical examination, CT scan of the head and neck reveal a fracture to the base of the patient's skull and massive intracranial bleeding. While the patient's examination and diagnostic tests are proceeding an emergency room tech uncovers the patient's driver's license among the belongings brought to the ED by the paramedics. At 5:20 PM the patient's medical record is updated with working diagnosis ICD-10 codes S02.112A (Type III occipital condyle fracture, initial encounter for closed fracture) and S06.9X3A (Unspecified intracranial injury with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter). Also at this time, the patient's license is used to update the medical record with name and date of birth. Western Regional Medical Center reports syndromic surveillance data to the state health department (SHD). At 5:30 PM on July 17, 2012 the hospital's electronic health record module for syndromic surveillance data assembles and transmits an ADT 08 Update message about this encounter to SHD.

#### Comments

This Test Case provides an example of an ED visit where the patient's demographic information is unavailable at registration, admit/encounter reason is captured as a coded value using an ICD-10 CM code, two working diagnoses and a final diagnosis are captured using ICD-10 CM codes, and the patient dies. The dates and times in this test case illustrate the sequence of clinical and messaging events. Since the exact dates and times are not reproducible when modeling the test case with a Health IT Module, only date and time format will be validated within tester submitted test data.

#### Pre-condition

A04-Registration message is sent before the A08-Update message.

#### Post-Condition

No PostCondition

#### Test Objectives

This test step examines a Health IT Module's ability to create ADT^A08 Update message within PHIN Messaging Guide's conformance requirements

#### Evaluation Criteria

Message Validation Report

#### Notes

Per ONC, for certification testing HIT developers must demonstrate that their system supports either the ICD-10 CM or SNOMED CT value set and are no longer required to demonstrate support for the ICD-9 CM value set (this policy is not conformant to the PHIN Syndromic Surveillance Messaging Guide, Rel2.0, April 2015).

ICD-10 CM codes are provided in the test data for coding the admit/encounter reason and working diagnoses. If the HIT developer uses different but equivalent ICD-10 CM codes than the ones provided or uses equivalent SNOMED CT codes, the Tester may ignore errors generated by the Test Tool related to incorrect code/name of coding system when the ICD-10 CM or SNOMED



CT code data used in the message are determined via visual inspection to be valid data.

ICD-10 CM codes are acceptable with or without decimals.

Visit Number ID (PV1-19.1) must be populated with the same value for all messages included in this Test Case to reflect the requirement in real-world installations. Test Tool does not automatically test for this requirement, so Testers must manually inspect the messages to verify that PV1-19.1 is the same for all Test Step messages for a given Test Case.

## Message Contents

MSH : Message Header

| Location | Data Element                    | Data                     | Categorization               |
|----------|---------------------------------|--------------------------|------------------------------|
| MSH-1    | Field Separator                 |                          | Value-Profile Fixed          |
| MSH-2    | Encoding Characters             | ^~\&                     | Value-Profile Fixed          |
| MSH-4    | Sending Facility                |                          |                              |
| MSH-4.1  | Namespace ID                    | WstrnRgnlMedCntr         | Presence-Configuration       |
| MSH-4.2  | Universal ID                    | 1231231235               | Presence-Configuration       |
| MSH-4.3  | Universal ID Type               | NPI                      | Presence-Configuration       |
| MSH-7    | Date/Time Of Message            |                          |                              |
| MSH-7.1  | Time                            | 201207171730             | Presence-System Generated    |
| MSH-9    | Message Type                    |                          |                              |
| MSH-9.1  | Message Code                    | ADT                      | Value-Profile Fixed          |
| MSH-9.2  | Trigger Event                   | A08                      | Value-Profile Fixed          |
| MSH-9.3  | Message Structure               | ADT_A01                  | Value-Profile Fixed          |
| MSH-10   | Message Control ID              | NIST-SS-002.21           | Presence-System Generated    |
| MSH-11   | Processing ID                   |                          |                              |
| MSH-11.1 | Processing ID                   | P                        | Presence-Content Indifferent |
| MSH-12   | Version ID                      |                          |                              |
| MSH-12.1 | Version ID                      | 2.5.1                    | Value-Profile Fixed          |
| MSH-15   | Accept Acknowledgment Type      | AL                       | Value-Profile Fixed          |
| MSH-16   | Application Acknowledgment Type |                          | Indifferent                  |
| MSH-21   | Message Profile Identifier      |                          |                              |
| MSH-21.1 | Entity Identifier               | PH_SS-Ack                | Value-Profile Fixed          |
| MSH-21.2 | Namespace ID                    | SS Sender                | Value-Profile Fixed          |
| MSH-21.3 | Universal ID                    | 2.16.840.1.114222.4.10.3 | Value-Profile Fixed          |
| MSH-21.4 | Universal ID Type               | ISO                      | Value-Profile Fixed          |

EVN : Event Type

| Location | Data Element       | Data             | Categorization            |
|----------|--------------------|------------------|---------------------------|
| EVN-2    | Recorded Date/Time |                  |                           |
| EVN-2.1  | Time               | 201207171720     | Presence-System Generated |
| EVN-7    | Event Facility     |                  |                           |
| EVN-7.1  | Namespace ID       | WstrnRgnlMedCntr | Presence-Configuration    |
| EVN-7.2  | Universal ID       | 1231231235       | Presence-Configuration    |
| EVN-7.3  | Universal ID Type  | NPI              | Presence-Configuration    |

**PID : Patient Identification**

| Location   | Data Element            | Data             | Categorization               |
|------------|-------------------------|------------------|------------------------------|
| PID-1      | Set ID - PID            | 1                | Value-Profile Fixed          |
| PID-3      | Patient Identifier List |                  |                              |
| PID-3.1    | ID Number               | 222              | Presence-Content Indifferent |
| PID-3.4    | Assigning Authority     |                  |                              |
| PID-3.4.1  | Namespace ID            | WstrnRgnlMedCntr | Presence-Content Indifferent |
| PID-3.4.2  | Universal ID            | 1231231235       | Presence-Content Indifferent |
| PID-3.4.3  | Universal ID Type       | NPI              | Presence-Configuration       |
| PID-5[1]   | Patient Name            |                  |                              |
| PID-5[1].7 | Name Type Code          |                  | NonPresence                  |
| PID-5[2]   | Patient Name            |                  |                              |
| PID-5[2].7 | Name Type Code          | S                | Value-Test Case Fixed        |
| PID-8      | Administrative Sex      | F                | Value-Test Case Fixed        |
| PID-10     | Race                    |                  |                              |
| PID-10.1   | Identifier              | 2106-3           | Value-Test Case Fixed        |
| PID-10.2   | Text                    | White            | Presence-Test Case Proper    |
| PID-10.3   | Name of Coding System   | CDCREC           | Value-Profile Fixed          |
| PID-11     | Patient Address         |                  |                              |
| PID-11.3   | City                    | Chicago          | Presence-Content Indifferent |
| PID-11.4   | State or Province       | 17               | Presence-Content Indifferent |
| PID-11.5   | Zip or Postal Code      | 60601            | Presence-Content Indifferent |
| PID-11.6   | Country                 | USA              | Presence-Content Indifferent |
| PID-11.9   | County/Parish Code      |                  | Indifferent                  |
| PID-22     | Ethnic Group            |                  |                              |
| PID-22.1   | Identifier              |                  | Indifferent                  |
| PID-22.2   | Text                    |                  | Indifferent                  |
| PID-22.3   | Name of Coding System   |                  | Indifferent                  |

**PV1 : Patient Visit**

| Location   | Data Element          | Data             | Categorization               |
|------------|-----------------------|------------------|------------------------------|
| PV1-1      | Set ID - PV1          | 1                | Value-Profile Fixed          |
| PV1-2      | Patient Class         | E                | Value-Test Case Fixed        |
| PV1-19     | Visit Number          |                  |                              |
| PV1-19.1   | ID Number             | 20120709_0064    | Presence-Content Indifferent |
| PV1-19.4   | Assigning Authority   |                  |                              |
| PV1-19.4.1 | Namespace ID          | WstrnRgnlMedCntr | Presence-Content Indifferent |
| PV1-19.4.2 | Universal ID          | 1231231235       | Presence-Content Indifferent |
| PV1-19.4.3 | Universal ID Type     | NPI              | Presence-Configuration       |
| PV1-36     | Discharge Disposition |                  | NonPresence                  |
| PV1-44     | Admit Date/Time       |                  |                              |
| PV1-44.1   | Time                  | 201207171700     | Presence-Content Indifferent |
| PV1-45     | Discharge Date/Time   |                  |                              |
| PV1-45.1   | Time                  |                  | NonPresence                  |

**PV2 : Patient Visit - Additional Information**

| Location | Data Element          | Data  | Categorization             |
|----------|-----------------------|---|----------------------------|
| PV2-3    | Admit Reason          |   |                            |
| PV2-3.1  | Identifier            | V134XXA   | Value-Test Case Fixed List |
| PV2-3.2  | Text                  | Pedal cycle driver injured in collision with car, pick-up truck or van in traffic accident, initial encounter | Presence-Test Case Proper  |
| PV2-3.3  | Name of Coding System | I10C  | Value-Test Case Fixed      |

## OBX[\*]

## OBX : Observation/Result

| Location | Data Element                    | Data                | Categorization            |
|----------|---------------------------------|---------------------|---------------------------|
| OBX-1    | Set ID - OBX                    | 1                   | Value-Profile Fixed       |
| OBX-2    | Value Type                      | CWE                 | Value-Test Case Fixed     |
| OBX-3    | Observation Identifier          |                     |                           |
| OBX-3.1  | Identifier                      | SS003               | Value-Test Case Fixed     |
| OBX-3.2  | Text                            | Facility/Visit Type | Presence-Test Case Proper |
| OBX-3.3  | Name of Coding System           | PHINQUESTION        | Value-Profile Fixed       |
| OBX-5    | Observation Value               |                     |                           |
| OBX-5.1  | Identifier                      | 261QE0002X          | Value-Test Case Fixed     |
| OBX-5.2  | Text                            | Emergency Care      | Presence-Test Case Proper |
| OBX-5.3  | Name of Coding System           | HCPTNUCC            | Value-Profile Fixed       |
| OBX-5.4  | Alternate Identifier            |                     | Indifferent               |
| OBX-5.5  | Alternate Text                  |                     | Indifferent               |
| OBX-5.6  | Name of Alternate Coding System |                     | Indifferent               |
| OBX-5.9  | Original Text                   |                     | Indifferent               |
| OBX-6    | Units                           |                     |                           |
| OBX-6.1  | Identifier                      |                     | NonPresence               |
| OBX-6.2  | Text                            |                     | NonPresence               |
| OBX-6.3  | Name of Coding System           |                     | NonPresence               |
| OBX-11   | Observation Result Status       | F                   | Value-Test Case Fixed     |

## OBX : Observation/Result

| Location | Data Element              | Data                         | Categorization            |
|----------|---------------------------|------------------------------|---------------------------|
| OBX-1    | Set ID - OBX              | 2                            | Value-Profile Fixed       |
| OBX-2    | Value Type                | NM                           | Value-Test Case Fixed     |
| OBX-3    | Observation Identifier    |                              |                           |
| OBX-3.1  | Identifier                | 21612-7                      | Value-Profile Fixed       |
| OBX-3.2  | Text                      | Age at Time Patient Reported | Presence-Test Case Proper |
| OBX-3.3  | Name of Coding System     | LN                           | Value-Profile Fixed       |
| OBX-5    | Observation Value         | 35                           | Value-Test Case Fixed     |
| OBX-6    | Units                     |                              |                           |
| OBX-6.1  | Identifier                | a                            | Value-Test Case Fixed     |
| OBX-6.2  | Text                      | year                         | Presence-Test Case Proper |
| OBX-6.3  | Name of Coding System     | UCUM                         | Value-Profile Fixed       |
| OBX-11   | Observation Result Status | F                            | Value-Test Case Fixed     |

## OBX : Observation/Result

| Location | Data Element              | Data    | Categorization            |
|----------|---------------------------|---------|---------------------------|
| OBX-1    | Set ID - OBX              | 3       | Value-Profile Fixed       |
| OBX-2    | Value Type                | NM      | Value-Test Case Fixed     |
| OBX-3    | Observation Identifier    |         |                           |
| OBX-3.1  | Identifier                | 8302-2  | Value-Profile Fixed       |
| OBX-3.2  | Text                      | Height  | Presence-Test Case Proper |
| OBX-3.3  | Name of Coding System     | LN      | Value-Profile Fixed       |
| OBX-5    | Observation Value         | 65      | Value-Test Case Fixed     |
| OBX-6    | Units                     |         |                           |
| OBX-6.1  | Identifier                | [in_us] | Value-Test Case Fixed     |
| OBX-6.2  | Text                      | inch    | Presence-Test Case Proper |
| OBX-6.3  | Name of Coding System     | UCUM    | Value-Profile Fixed       |
| OBX-11   | Observation Result Status | F       | Value-Test Case Fixed     |

**OBX : Observation/Result**

| Location | Data Element              | Data    | Categorization            |
|----------|---------------------------|---------|---------------------------|
| OBX-1    | Set ID - OBX              | 4       | Value-Profile Fixed       |
| OBX-2    | Value Type                | NM      | Value-Test Case Fixed     |
| OBX-3    | Observation Identifier    |         |                           |
| OBX-3.1  | Identifier                | 3141-9  | Value-Profile Fixed       |
| OBX-3.2  | Text                      | Weight  | Presence-Test Case Proper |
| OBX-3.3  | Name of Coding System     | LN      | Value-Profile Fixed       |
| OBX-5    | Observation Value         | 128     | Value-Test Case Fixed     |
| OBX-6    | Units                     |         |                           |
| OBX-6.1  | Identifier                | [lb_av] | Value-Test Case Fixed     |
| OBX-6.2  | Text                      | pound   | Presence-Test Case Proper |
| OBX-6.3  | Name of Coding System     | UCUM    | Value-Profile Fixed       |
| OBX-11   | Observation Result Status | F       | Value-Test Case Fixed     |

**OBX : Observation/Result**

| Location | Data Element                    | Data                   | Categorization            |
|----------|---------------------------------|------------------------|---------------------------|
| OBX-1    | Set ID - OBX                    | 5                      | Value-Profile Fixed       |
| OBX-2    | Value Type                      | CWE                    | Value-Test Case Fixed     |
| OBX-3    | Observation Identifier          |                        |                           |
| OBX-3.1  | Identifier                      | 72166-2                | Value-Profile Fixed       |
| OBX-3.2  | Text                            | Tobacco Smoking Status | Presence-Test Case Proper |
| OBX-3.3  | Name of Coding System           | LN                     | Value-Profile Fixed       |
| OBX-5    | Observation Value               |                        |                           |
| OBX-5.1  | Identifier                      | 266927001              | Value-Test Case Fixed     |
| OBX-5.2  | Text                            | Unknown if ever smoked | Presence-Test Case Proper |
| OBX-5.3  | Name of Coding System           | SCT                    | Value-Profile Fixed       |
| OBX-5.4  | Alternate Identifier            |                        | Indifferent               |
| OBX-5.5  | Alternate Text                  |                        | Indifferent               |
| OBX-5.6  | Name of Alternate Coding System |                        | Indifferent               |
| OBX-5.9  | Original Text                   |                        | Indifferent               |
| OBX-6    | Units                           |                        |                           |
| OBX-6.1  | Identifier                      |                        | NonPresence               |
| OBX-6.2  | Text                            |                        | NonPresence               |
| OBX-6.3  | Name of Coding System           |                        | NonPresence               |
| OBX-11   | Observation Result Status       | F                      | Value-Test Case Fixed     |

**DG1[\*]**

**DG1 : Diagnosis**

| Location | Data Element          | Data   | Categorization             |
|----------|-----------------------|--|----------------------------|
| DG1-1    | Set ID - DG1          | 1  | Value-Profile Fixed        |
| DG1-3    | Diagnosis Code - DG1  |  |                            |
| DG1-3.1  | Identifier            | S02112A  | Value-Test Case Fixed List |
| DG1-3.2  | Text                  | Type III occipital condyle fracture, initial encounter for closed fracture | Presence-Test Case Proper  |
| DG1-3.3  | Name of Coding System | I10C   | Value-Test Case Fixed      |
| DG1-6    | Diagnosis Type        | W  | Value-Test Case Fixed      |

**DG1 : Diagnosis**

| Location | Data Element          | Data  | Categorization             |
|----------|-----------------------|---|----------------------------|
| DG1-1    | Set ID - DG1          | 2   | Value-Profile Fixed        |
| DG1-3    | Diagnosis Code - DG1  |   |                            |
| DG1-3.1  | Identifier            | S069X3A   | Value-Test Case Fixed List |
| DG1-3.2  | Text                  | Unspecified intracranial injury with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter | Presence-Test Case Proper  |
| DG1-3.3  | Name of Coding System | I10C  | Value-Test Case Fixed      |
| DG1-6    | Diagnosis Type        | W   | Value-Test Case Fixed      |

## Test Data Specification

### Patient Information

| Element                     | Data                                  |
|-----------------------------|---------------------------------------|
| Name                        | Coded Pseudo-Name to ensure anonymity |
| Sex                         | Female                                |
| Race                        | White                                 |
| City                        | Chicago                               |
| State                       | Illinois                              |
| Zip Code                    | 60601                                 |
| Country                     | UNITED STATES                         |
| County/Parish Code          |                                       |
| Patient Death Date and Time |                                       |
| Patient Death Indicator     |                                       |

### Visit Information

| Element                   | Data  |
|---------------------------|---|
| Admit or Encounter Reason | Pedal cycle driver injured in collision with car, pick-up truck or van in traffic accident, initial encounter |
| Admit Date and Time       | 07/17/2012 5:00 PM  |
| Patient Class             | Emergency   |
| Discharge Disposition     |   |
| Discharge Date/Time       |   |
| Diagnosis Type            | Working   |
| Diagnosis                 | Type III occipital condyle fracture, initial encounter for closed fracture                                    |
| Diagnosis                 | Unspecified intracranial injury with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter |

## Observations[\*]

### Observation Results Information

| Element                    | Data  |
|----------------------------|---|
| Observation Identifier     | Facility / Visit Type                                       |
| Observation Value          | Emergency Care  |
| Units                      |   |
| Observation Results Status | Final results; Can only be changed with a corrected result. |

### Observation Results Information

| Element                    | Data  |
|----------------------------|---|
| Observation Identifier     | Age Time Patient Reported                                   |
| Observation Value          | 35  |
| Units                      | year  |
| Observation Results Status | Final results; Can only be changed with a corrected result. |

### Observation Results Information

| Element                    | Data  |
|----------------------------|---|
| Observation Identifier     | Height  |
| Observation Value          | 65  |
| Units                      | inch  |
| Observation Results Status | Final results; Can only be changed with a corrected result. |

### Observation Results Information

| Element                    | Data  |
|----------------------------|---|
| Observation Identifier     | Weight  |
| Observation Value          | 128   |
| Units                      | pound   |
| Observation Results Status | Final results; Can only be changed with a corrected result. |

### Observation Results Information

| Element                    | Data  |
|----------------------------|---|
| Observation Identifier     | Tobacco Smoking Status                                      |
| Observation Value          | Unknown if ever smoked                                      |
| Units                      |   |
| Observation Results Status | Final results; Can only be changed with a corrected result. |

## 2.1.3. SS-ED-2.3\_Discharge\_A03

Expired patient is discharged (dispositioned).

### Test Story

#### Description

At 5:41 PM, the patient dies. The working diagnoses (ICD-10-CM S02.112A and S06.9X3A) are resolved/inactivated, and the final diagnoses are S06.0X8A (Concussion with LOC of any duration with death due to other cause prior to regaining consciousness) and S02.112A (Type III occipital condyle fracture, initial encounter for closed fracture). Western Regional Medical Center reports syndromic surveillance data to the state health department (SHD). At 6:00 PM on July 17, 2012 the hospital's electronic health record module for syndromic surveillance data assembles and transmits an ADT^A03 Discharge message about this encounter to SHD.

#### Comments

This Test Case provides an example of an ED visit where the patient's demographic information is unavailable at registration, admit/encounter reason is captured as a coded value using an ICD-10 CM code, two working diagnoses and a final diagnosis are captured using ICD-10 CM codes, and the patient dies. The dates and times in this test case illustrate the sequence of clinical and messaging events. Since the exact dates and times are not reproducible when modeling the test case with a Health IT Module, only date and time format will be validated within tester submitted test data.

#### Pre-condition

A08-Update message is sent before the A03-Discharge message.

#### Post-Condition

No PostCondition

#### Test Objectives

This test step examines a Health IT Module's ability to create ADT^A03 Discharge message within PHIN Messaging Guide's conformance requirements for emergency department (ED) data.

#### Evaluation Criteria

Message Validation Report

#### Notes

Per ONC, for certification testing HIT developers must demonstrate that their system supports either the ICD-10 CM or SNOMED CT value set and are no longer required to demonstrate support for the ICD-9 CM value set (this policy is not conformant to the PHIN Syndromic Surveillance Messaging Guide, Rel2.0, April 2015).

ICD-10 CM codes are provided in the test data for coding the admit/encounter reason and final diagnoses. If the HIT developer uses different but equivalent ICD-10 CM codes than the ones provided or uses equivalent SNOMED CT codes, the Tester may ignore errors generated by the Test Tool related to incorrect code/name of coding system when the ICD-10 CM or SNOMED CT code data used in the message are determined via visual inspection to be valid data.

ICD-10 CM codes are acceptable with or without decimals.

This Test Step does not prescribe the method used by the Health IT Module to change a working

diagnosis to a final diagnosis. The Test Step only validates a specific ADT message type.

Visit Number ID (PV1-19.1) must be populated with the same value for all messages included in this Test Case to reflect the requirement in real-world installations. Test Tool does not automatically test for this requirement, so Testers must manually inspect the messages to verify that PV1-19.1 is the same for all Test Step messages for a given Test Case.

## Message Contents

MSH : Message Header

| Location | Data Element                    | Data                     | Categorization               |
|----------|---------------------------------|--------------------------|------------------------------|
| MSH-1    | Field Separator                 |                          | Value-Profile Fixed          |
| MSH-2    | Encoding Characters             | ^~\&                     | Value-Profile Fixed          |
| MSH-4    | Sending Facility                |                          |                              |
| MSH-4.1  | Namespace ID                    | WstrnRgnlMedCntr         | Presence-Configuration       |
| MSH-4.2  | Universal ID                    | 1231231235               | Presence-Configuration       |
| MSH-4.3  | Universal ID Type               | NPI                      | Presence-Configuration       |
| MSH-7    | Date/Time Of Message            |                          |                              |
| MSH-7.1  | Time                            | 201207171800             | Presence-System Generated    |
| MSH-9    | Message Type                    |                          |                              |
| MSH-9.1  | Message Code                    | ADT                      | Value-Profile Fixed          |
| MSH-9.2  | Trigger Event                   | A03                      | Value-Profile Fixed          |
| MSH-9.3  | Message Structure               | ADT_A03                  | Value-Profile Fixed          |
| MSH-10   | Message Control ID              | NIST-SS-002.31           | Presence-System Generated    |
| MSH-11   | Processing ID                   |                          |                              |
| MSH-11.1 | Processing ID                   | P                        | Presence-Content Indifferent |
| MSH-12   | Version ID                      |                          |                              |
| MSH-12.1 | Version ID                      | 2.5.1                    | Value-Profile Fixed          |
| MSH-15   | Accept Acknowledgment Type      | AL                       | Value-Profile Fixed          |
| MSH-16   | Application Acknowledgment Type |                          | Indifferent                  |
| MSH-21   | Message Profile Identifier      |                          |                              |
| MSH-21.1 | Entity Identifier               | PH_SS-Ack                | Value-Profile Fixed          |
| MSH-21.2 | Namespace ID                    | SS Sender                | Value-Profile Fixed          |
| MSH-21.3 | Universal ID                    | 2.16.840.1.114222.4.10.3 | Value-Profile Fixed          |
| MSH-21.4 | Universal ID Type               | ISO                      | Value-Profile Fixed          |

EVN : Event Type

| Location | Data Element       | Data             | Categorization            |
|----------|--------------------|------------------|---------------------------|
| EVN-2    | Recorded Date/Time |                  |                           |
| EVN-2.1  | Time               | 201207171800     | Presence-System Generated |
| EVN-7    | Event Facility     |                  |                           |
| EVN-7.1  | Namespace ID       | WstrnRgnlMedCntr | Presence-Configuration    |
| EVN-7.2  | Universal ID       | 1231231235       | Presence-Configuration    |
| EVN-7.3  | Universal ID Type  | NPI              | Presence-Configuration    |



**PID : Patient Identification**

| Location   | Data Element            | Data             | Categorization               |
|------------|-------------------------|------------------|------------------------------|
| PID-1      | Set ID - PID            | 1                | Value-Profile Fixed          |
| PID-3      | Patient Identifier List |                  |                              |
| PID-3.1    | ID Number               | 222              | Presence-Content Indifferent |
| PID-3.4    | Assigning Authority     |                  |                              |
| PID-3.4.1  | Namespace ID            | WstrnRgnlMedCntr | Presence-Content Indifferent |
| PID-3.4.2  | Universal ID            | 1231231235       | Presence-Content Indifferent |
| PID-3.4.3  | Universal ID Type       | NPI              | Presence-Configuration       |
| PID-5[1]   | Patient Name            |                  |                              |
| PID-5[1].7 | Name Type Code          |                  | NonPresence                  |
| PID-5[2]   | Patient Name            |                  |                              |
| PID-5[2].7 | Name Type Code          | S                | Value-Test Case Fixed        |
| PID-8      | Administrative Sex      | F                | Value-Test Case Fixed        |
| PID-10     | Race                    |                  |                              |
| PID-10.1   | Identifier              | 2106-3           | Value-Test Case Fixed        |
| PID-10.2   | Text                    |                  | Indifferent                  |
| PID-10.3   | Name of Coding System   | CDCREC           | Value-Profile Fixed          |
| PID-11     | Patient Address         |                  |                              |
| PID-11.3   | City                    | Chicago          | Presence-Content Indifferent |
| PID-11.4   | State or Province       | 17               | Presence-Content Indifferent |
| PID-11.5   | Zip or Postal Code      | 60601            | Presence-Content Indifferent |
| PID-11.6   | Country                 | USA              | Presence-Content Indifferent |
| PID-11.9   | County/Parish Code      |                  | Indifferent                  |
| PID-22     | Ethnic Group            |                  |                              |
| PID-22.1   | Identifier              |                  | Indifferent                  |
| PID-22.2   | Text                    |                  | Indifferent                  |
| PID-22.3   | Name of Coding System   |                  | Indifferent                  |

**PV1 : Patient Visit**

| Location   | Data Element          | Data             | Categorization               |
|------------|-----------------------|------------------|------------------------------|
| PV1-1      | Set ID - PV1          | 1                | Value-Profile Fixed          |
| PV1-2      | Patient Class         | E                | Value-Test Case Fixed        |
| PV1-19     | Visit Number          |                  |                              |
| PV1-19.1   | ID Number             | 20120709_0064    | Presence-Content Indifferent |
| PV1-19.4   | Assigning Authority   |                  |                              |
| PV1-19.4.1 | Namespace ID          | WstrnRgnlMedCntr | Presence-Content Indifferent |
| PV1-19.4.2 | Universal ID          | 1231231235       | Presence-Content Indifferent |
| PV1-19.4.3 | Universal ID Type     | NPI              | Presence-Configuration       |
| PV1-36     | Discharge Disposition | 20               | Value-Test Case Fixed        |
| PV1-44     | Admit Date/Time       |                  |                              |
| PV1-44.1   | Time                  | 201207171700     | Presence-Content Indifferent |
| PV1-45     | Discharge Date/Time   |                  |                              |
| PV1-45.1   | Time                  | 201207171800     | Presence-Content Indifferent |

**PV2 : Patient Visit - Additional Information**

| Location | Data Element          | Data  | Categorization             |
|----------|-----------------------|---|----------------------------|
| PV2-3    | Admit Reason          |   |                            |
| PV2-3.1  | Identifier            | V134XXA   | Value-Test Case Fixed List |
| PV2-3.2  | Text                  | Pedal cycle driver injured in collision with car, pick-up truck or van in traffic accident, initial encounter | Presence-Test Case Proper  |
| PV2-3.3  | Name of Coding System | I10C  | Value-Test Case Fixed      |

**DG1[\*]**

**DG1 : Diagnosis**

| Location | Data Element          | Data   | Categorization             |
|----------|-----------------------|--|----------------------------|
| DG1-1    | Set ID - DG1          | 1  | Value-Profile Fixed        |
| DG1-3    | Diagnosis Code - DG1  |  |                            |
| DG1-3.1  | Identifier            | S060X8A  | Value-Test Case Fixed List |
| DG1-3.2  | Text                  | Concussion with LOC of any duration with death due to other cause prior to regaining consciousness | Presence-Test Case Proper  |
| DG1-3.3  | Name of Coding System | I10C   | Value-Test Case Fixed      |
| DG1-6    | Diagnosis Type        | F  | Value-Test Case Fixed      |

**DG1 : Diagnosis**

| Location | Data Element          | Data   | Categorization             |
|----------|-----------------------|--|----------------------------|
| DG1-1    | Set ID - DG1          | 2  | Value-Profile Fixed        |
| DG1-3    | Diagnosis Code - DG1  |  |                            |
| DG1-3.1  | Identifier            | S02112A  | Value-Test Case Fixed List |
| DG1-3.2  | Text                  | Type III occipital condyle fracture, initial encounter for closed fracture | Presence-Test Case Proper  |
| DG1-3.3  | Name of Coding System | I10C   | Value-Test Case Fixed      |
| DG1-6    | Diagnosis Type        | F  | Value-Test Case Fixed      |

**OBX[\*]**

**OBX : Observation/Result**

| Location | Data Element                    | Data                | Categorization            |
|----------|---------------------------------|---------------------|---------------------------|
| OBX-1    | Set ID - OBX                    | 1                   | Value-Profile Fixed       |
| OBX-2    | Value Type                      | CWE                 | Value-Test Case Fixed     |
| OBX-3    | Observation Identifier          |                     |                           |
| OBX-3.1  | Identifier                      | SS003               | Value-Test Case Fixed     |
| OBX-3.2  | Text                            | Facility/Visit Type | Presence-Test Case Proper |
| OBX-3.3  | Name of Coding System           | PHINQUESTION        | Value-Profile Fixed       |
| OBX-5    | Observation Value               |                     |                           |
| OBX-5.1  | Identifier                      | 261QE0002X          | Value-Test Case Fixed     |
| OBX-5.2  | Text                            | Emergency Care      | Presence-Test Case Proper |
| OBX-5.3  | Name of Coding System           | HCPTNUCC            | Value-Profile Fixed       |
| OBX-5.4  | Alternate Identifier            |                     | Indifferent               |
| OBX-5.5  | Alternate Text                  |                     | Indifferent               |
| OBX-5.6  | Name of Alternate Coding System |                     | Indifferent               |
| OBX-5.9  | Original Text                   |                     | Indifferent               |
| OBX-6    | Units                           |                     |                           |
| OBX-6.1  | Identifier                      |                     | NonPresence               |
| OBX-6.2  | Text                            |                     | NonPresence               |
| OBX-6.3  | Name of Coding System           |                     | NonPresence               |
| OBX-11   | Observation Result Status       | F                   | Value-Test Case Fixed     |

**OBX : Observation/Result**

| Location | Data Element              | Data                         | Categorization            |
|----------|---------------------------|------------------------------|---------------------------|
| OBX-1    | Set ID - OBX              | 2                            | Value-Profile Fixed       |
| OBX-2    | Value Type                | NM                           | Value-Test Case Fixed     |
| OBX-3    | Observation Identifier    |                              |                           |
| OBX-3.1  | Identifier                | 21612-7                      | Value-Profile Fixed       |
| OBX-3.2  | Text                      | Age at Time Patient Reported | Presence-Test Case Proper |
| OBX-3.3  | Name of Coding System     | LN                           | Value-Profile Fixed       |
| OBX-5    | Observation Value         | 35                           | Value-Test Case Fixed     |
| OBX-6    | Units                     |                              |                           |
| OBX-6.1  | Identifier                | a                            | Value-Test Case Fixed     |
| OBX-6.2  | Text                      | year                         | Presence-Test Case Proper |
| OBX-6.3  | Name of Coding System     | UCUM                         | Value-Profile Fixed       |
| OBX-11   | Observation Result Status | F                            | Value-Test Case Fixed     |

**OBX : Observation/Result**

| Location | Data Element              | Data    | Categorization            |
|----------|---------------------------|---------|---------------------------|
| OBX-1    | Set ID - OBX              | 3       | Value-Profile Fixed       |
| OBX-2    | Value Type                | NM      | Value-Test Case Fixed     |
| OBX-3    | Observation Identifier    |         |                           |
| OBX-3.1  | Identifier                | 8302-2  | Value-Profile Fixed       |
| OBX-3.2  | Text                      | Height  | Presence-Test Case Proper |
| OBX-3.3  | Name of Coding System     | LN      | Value-Profile Fixed       |
| OBX-5    | Observation Value         | 65      | Value-Test Case Fixed     |
| OBX-6    | Units                     |         |                           |
| OBX-6.1  | Identifier                | [in_us] | Value-Test Case Fixed     |
| OBX-6.2  | Text                      | inch    | Presence-Test Case Proper |
| OBX-6.3  | Name of Coding System     | UCUM    | Value-Profile Fixed       |
| OBX-11   | Observation Result Status | F       | Value-Test Case Fixed     |

**OBX : Observation/Result**

| Location | Data Element              | Data    | Categorization            |
|----------|---------------------------|---------|---------------------------|
| OBX-1    | Set ID - OBX              | 4       | Value-Profile Fixed       |
| OBX-2    | Value Type                | NM      | Value-Test Case Fixed     |
| OBX-3    | Observation Identifier    |         |                           |
| OBX-3.1  | Identifier                | 3141-9  | Value-Profile Fixed       |
| OBX-3.2  | Text                      | Weight  | Presence-Test Case Proper |
| OBX-3.3  | Name of Coding System     | LN      | Value-Profile Fixed       |
| OBX-5    | Observation Value         | 128     | Value-Test Case Fixed     |
| OBX-6    | Units                     |         |                           |
| OBX-6.1  | Identifier                | [lb_av] | Value-Test Case Fixed     |
| OBX-6.2  | Text                      | pound   | Presence-Test Case Proper |
| OBX-6.3  | Name of Coding System     | UCUM    | Value-Profile Fixed       |
| OBX-11   | Observation Result Status | F       | Value-Test Case Fixed     |

**OBX : Observation/Result**

| Location | Data Element                    | Data                   | Categorization            |
|----------|---------------------------------|------------------------|---------------------------|
| OBX-1    | Set ID - OBX                    | 5                      | Value-Profile Fixed       |
| OBX-2    | Value Type                      | CWE                    | Value-Test Case Fixed     |
| OBX-3    | Observation Identifier          |                        |                           |
| OBX-3.1  | Identifier                      | 72166-2                | Value-Profile Fixed       |
| OBX-3.2  | Text                            | Tobacco Smoking Status | Presence-Test Case Proper |
| OBX-3.3  | Name of Coding System           | LN                     | Value-Profile Fixed       |
| OBX-5    | Observation Value               |                        |                           |
| OBX-5.1  | Identifier                      | 266927001              | Value-Test Case Fixed     |
| OBX-5.2  | Text                            | Unknown if ever smoked | Presence-Test Case Proper |
| OBX-5.3  | Name of Coding System           | SCT                    | Value-Profile Fixed       |
| OBX-5.4  | Alternate Identifier            |                        | Indifferent               |
| OBX-5.5  | Alternate Text                  |                        | Indifferent               |
| OBX-5.6  | Name of Alternate Coding System |                        | Indifferent               |
| OBX-5.9  | Original Text                   |                        | Indifferent               |
| OBX-6    | Units                           |                        |                           |
| OBX-6.1  | Identifier                      |                        | NonPresence               |
| OBX-6.2  | Text                            |                        | NonPresence               |
| OBX-6.3  | Name of Coding System           |                        | NonPresence               |
| OBX-11   | Observation Result Status       | F                      | Value-Test Case Fixed     |

## Test Data Specification

**Patient Information**

| Element                     | Data                                  |
|-----------------------------|---------------------------------------|
| Name                        | Coded Pseudo-Name to ensure anonymity |
| Sex                         | Female                                |
| Race                        | White                                 |
| City                        | Chicago                               |
| State                       | Illinois                              |
| Zip Code                    | 60601                                 |
| Country                     | UNITED STATES                         |
| County/Parish Code          |                                       |
| Patient Death Date and Time | 07/17/2012 5:41 PM                    |
| Patient Death Indicator     | Yes                                   |

## Visit Information

| Element                   | Data  |
|---------------------------|---|
| Admit or Encounter Reason | Pedal cycle driver injured in collision with car, pick-up truck or van in traffic accident, initial encounter |
| Admit Date and Time       | 07/17/2012 5:00 PM  |
| Patient Class             | Emergency   |
| Discharge Disposition     | Expired   |
| Discharge Date/Time       | 07/17/2012 6:00 PM  |
| Diagnosis Type            | Final   |
| Diagnosis                 | Concussion with LOC of any duration with death due to other cause prior to regaining consciousness            |
| Diagnosis                 | Type III occipital condyle fracture, initial encounter for closed fracture                                    |

## Observations[\*]

### Observation Results Information

| Element                    | Data  |
|----------------------------|---|
| Observation Identifier     | Facility / Visit Type                                       |
| Observation Value          | Emergency Care  |
| Units                      |   |
| Observation Results Status | Final results; Can only be changed with a corrected result. |

### Observation Results Information

| Element                    | Data  |
|----------------------------|---|
| Observation Identifier     | Age Time Patient Reported                                   |
| Observation Value          | 35  |
| Units                      | year  |
| Observation Results Status | Final results; Can only be changed with a corrected result. |

### Observation Results Information

| Element                    | Data  |
|----------------------------|---|
| Observation Identifier     | Height  |
| Observation Value          | 65  |
| Units                      | inch  |
| Observation Results Status | Final results; Can only be changed with a corrected result. |

### Observation Results Information

| Element                    | Data  |
|----------------------------|---|
| Observation Identifier     | Weight  |
| Observation Value          | 128   |
| Units                      | pound   |
| Observation Results Status | Final results; Can only be changed with a corrected result. |

### Observation Results Information

| Element                    | Data  |
|----------------------------|---|
| Observation Identifier     | Tobacco Smoking Status                                      |
| Observation Value          | Unknown if ever smoked                                      |
| Units                      |   |
| Observation Results Status | Final results; Can only be changed with a corrected result. |

### 3. ED Visit with Inpatient Admission

Patient seen in ED and admitted to hospital.

#### Test Story

|                     |
|---------------------|
| Description         |
| null                |
| Comments            |
| null                |
| Pre-condition       |
| null                |
| Post-Condition      |
| null                |
| Test Objectives     |
| null                |
| Evaluation Criteria |
| null                |
| Notes               |
| null                |

### 3.1. SS-ED-3\_ED\_Visit\_Patient\_Admitted

ED Visit with admission for HBOT.

#### Test Story

##### Description

Syndromic surveillance is public health surveillance that emphasizes the use of near "real-time" health data and statistical tools for disease or hazardous event detection, situation awareness for mass gatherings and public health emergencies, and ad hoc and population health trend analyses. For syndromic surveillance purposes, required data on all clinical encounters must be sent to the jurisdictional public health agency within 24 hours of the start of any given encounter, and in accordance with local or state laws and practices.

The ED Visit with Admit Test Case provides an example of an ED visit for which the patient's chief complaint is captured as free-text, working diagnosis and final diagnosis are captured with SNOMED CT codes, the patient is discharged from the ED and admitted for inpatient care, and the Admit/Encounter Reason is captured with a SNOMED CT code.

In this test case, a disoriented, elderly male is brought to the emergency department on the day following a blizzard that caused power outages. He was nearly unconscious when found in his kitchen next to a gas oven. He states that he has a headache, nausea, and dizziness. The physician diagnoses him with carbon monoxide poisoning and orders him to be admitted as an inpatient for hyperbaric oxygen therapy. He is discharged from the ED and prepared for admission. Syndromic surveillance data about the visit are transmitted to the state health department.

This test case involves 4 steps: a registration message (ADT^A04), an update message (ADT^A08), a discharge message (ADT^A03), and an admission message (ADT^A01).

##### Comments

No Comments

##### Pre-condition

No PreCondition

##### Post-Condition

No PostCondition

##### Test Objectives

No Test Objectives

##### Evaluation Criteria

No evaluation criteria

##### Notes

No Note



### 3.1.1. SS-ED-3.1\_Registration\_A04

Patient is registered in the ED.

#### Test Story

##### Description

A disoriented 70 year-old male is brought by his neighbor to Southern Midwest Medical Center's Emergency Department at 7:30 AM on February 1, 2010, the day following a blizzard that caused power outages in many city neighborhoods. The patient is complaining of "a headache, nausea, and dizziness". The neighbor explains that he was concerned about the patient since the building's electric heating system was not working. At 7:00 AM, he entered the patient's apartment and found the patient unconscious in the kitchen next to a fully lit gas oven and stove running at high. A clerical assistant registers the patient with the neighbor's help. She records the patient's name, date of birth, race, ethnicity, residence, insurance information, and health history. The clerical assistant also enters the patient's chief complaint as, "A headache, nausea, and dizziness". Southern Midwest Medical Center reports syndromic surveillance data to the state health department (SHD). At 7:45 AM on February 1, 2010, the hospital's electronic health record module for syndromic surveillance data assembles and transmits a Registration message about this encounter to SHD.

##### Comments

This Test Case provides an example of an ED visit for which the patient's chief complaint is captured as free-text, working diagnosis and final diagnosis are captured with SNOMED CT codes, the patient is discharged from the ED and admitted for inpatient care, and the Admit/Encounter Reason is captured with a SNOMED CT code. Dates and times are provided in this test case to illustrate the sequence of clinical and messaging events. Since the exact dates and times are not reproducible when modeling the Test Case with a Health IT Module, only date and time format will be validated within tester submitted test data.

##### Pre-condition

No PreCondition

##### Post-Condition

No PostCondition

##### Test Objectives

This test step examines a Health IT Module's ability to create ADT A04-Registration message within the PHIN Messaging Guide's conformance requirements for syndromic surveillance.

##### Evaluation Criteria

Message Validation Report

##### Notes

Visit Number ID (PV1-19.1) for the ADT^A04, ADT^A08, and ADT^A03 messages in this Test Case must be populated with the same value to reflect the requirement in real-world installations. The Test Tool does not automatically test for this requirement, so Testers must manually inspect the messages to verify that the PV1-19.1 value is the same for the first three Test Step messages for this Test Case.

# Message Contents

## MSH : Message Header

| Location | Data Element                    | Data                     | Categorization               |
|----------|---------------------------------|--------------------------|------------------------------|
| MSH-1    | Field Separator                 |                          | Value-Profile Fixed          |
| MSH-2    | Encoding Characters             | ^~\&                     | Value-Profile Fixed          |
| MSH-4    | Sending Facility                |                          |                              |
| MSH-4.1  | Namespace ID                    | SthrnMdwstMedCntr        | Presence-Configuration       |
| MSH-4.2  | Universal ID                    | 1231231236               | Presence-Configuration       |
| MSH-4.3  | Universal ID Type               | NPI                      | Presence-Configuration       |
| MSH-7    | Date/Time Of Message            |                          |                              |
| MSH-7.1  | Time                            | 201002010745             | Presence-System Generated    |
| MSH-9    | Message Type                    |                          |                              |
| MSH-9.1  | Message Code                    | ADT                      | Value-Profile Fixed          |
| MSH-9.2  | Trigger Event                   | A04                      | Value-Profile Fixed          |
| MSH-9.3  | Message Structure               | ADT_A01                  | Value-Profile Fixed          |
| MSH-10   | Message Control ID              | NIST-SS-003.11           | Presence-System Generated    |
| MSH-11   | Processing ID                   |                          |                              |
| MSH-11.1 | Processing ID                   | P                        | Presence-Content Indifferent |
| MSH-12   | Version ID                      |                          |                              |
| MSH-12.1 | Version ID                      | 2.5.1                    | Value-Profile Fixed          |
| MSH-15   | Accept Acknowledgment Type      | AL                       | Value-Profile Fixed          |
| MSH-16   | Application Acknowledgment Type |                          | Indifferent                  |
| MSH-21   | Message Profile Identifier      |                          |                              |
| MSH-21.1 | Entity Identifier               | PH_SS-Ack                | Value-Profile Fixed          |
| MSH-21.2 | Namespace ID                    | SS Sender                | Value-Profile Fixed          |
| MSH-21.3 | Universal ID                    | 2.16.840.1.114222.4.10.3 | Value-Profile Fixed          |
| MSH-21.4 | Universal ID Type               | ISO                      | Value-Profile Fixed          |

## EVN : Event Type

| Location | Data Element       | Data              | Categorization            |
|----------|--------------------|-------------------|---------------------------|
| EVN-2    | Recorded Date/Time |                   |                           |
| EVN-2.1  | Time               | 201002010745      | Presence-System Generated |
| EVN-7    | Event Facility     |                   |                           |
| EVN-7.1  | Namespace ID       | SthrnMdwstMedCntr | Presence-Configuration    |
| EVN-7.2  | Universal ID       | 1231231236        | Presence-Configuration    |
| EVN-7.3  | Universal ID Type  | NPI               | Presence-Configuration    |

**PID : Patient Identification**

| Location    | Data Element            | Data                             | Categorization               |
|-------------|-------------------------|----------------------------------|------------------------------|
| PID-1       | Set ID - PID            | 1                                | Value-Profile Fixed          |
| PID-3       | Patient Identifier List |                                  |                              |
| PID-3.1     | ID Number               | 3333                             | Presence-Content Indifferent |
| PID-3.4     | Assigning Authority     |                                  |                              |
| PID-3.4.1   | Namespace ID            | SthrnMdwstMedCntr                | Presence-Content Indifferent |
| PID-3.4.2   | Universal ID            | 1231231236                       | Presence-Content Indifferent |
| PID-3.4.3   | Universal ID Type       | NPI                              | Presence-Configuration       |
| PID-5[1]    | Patient Name            |                                  |                              |
| PID-5[1].7  | Name Type Code          |                                  | NonPresence                  |
| PID-5[2]    | Patient Name            |                                  |                              |
| PID-5[2].7  | Name Type Code          | S                                | Value-Test Case Fixed        |
| PID-8       | Administrative Sex      | M                                | Value-Test Case Fixed        |
| PID-10[1]   | Race                    |                                  |                              |
| PID-10[1].1 | Identifier              | 2106-3                           | Value-Test Case Fixed        |
| PID-10[1].2 | Text                    | White                            | Presence-Test Case Proper    |
| PID-10[1].3 | Name of Coding System   | CDCREC                           | Value-Profile Fixed          |
| PID-10[2]   | Race                    |                                  |                              |
| PID-10[2].1 | Identifier              | 1002-5                           | Value-Test Case Fixed        |
| PID-10[2].2 | Text                    | American Indian or Alaska Native | Presence-Test Case Proper    |
| PID-10[2].3 | Name of Coding System   | CDCREC                           | Value-Profile Fixed          |
| PID-10[3]   | Race                    |                                  |                              |
| PID-10[3].1 | Identifier              | 2131-1                           | Value-Test Case Fixed        |
| PID-10[3].2 | Text                    | Other race                       | Presence-Test Case Proper    |
| PID-10[3].3 | Name of Coding System   | CDCREC                           | Value-Profile Fixed          |
| PID-11      | Patient Address         |                                  |                              |
| PID-11.3    | City                    | Oklahoma City                    | Presence-Content Indifferent |
| PID-11.4    | State or Province       | 40                               | Presence-Content Indifferent |
| PID-11.5    | Zip or Postal Code      | 74852                            | Presence-Content Indifferent |
| PID-11.6    | Country                 | USA                              | Presence-Content Indifferent |
| PID-11.9    | County/Parish Code      | 40125                            | Presence-Content Indifferent |
| PID-22      | Ethnic Group            |                                  |                              |
| PID-22.1    | Identifier              | 2186-5                           | Value-Test Case Fixed        |
| PID-22.2    | Text                    | Not Hispanic or Latino           | Presence-Test Case Proper    |
| PID-22.3    | Name of Coding System   | CDCREC                           | Value-Profile Fixed          |

**PV1 : Patient Visit**

| Location   | Data Element          | Data              | Categorization               |
|------------|-----------------------|-------------------|------------------------------|
| PV1-1      | Set ID - PV1          | 1                 | Value-Profile Fixed          |
| PV1-2      | Patient Class         | E                 | Value-Test Case Fixed        |
| PV1-19     | Visit Number          |                   |                              |
| PV1-19.1   | ID Number             | 3333_001          | Presence-Content Indifferent |
| PV1-19.4   | Assigning Authority   |                   |                              |
| PV1-19.4.1 | Namespace ID          | SthrnMdwstMedCntr | Presence-Content Indifferent |
| PV1-19.4.2 | Universal ID          | 1231231236        | Presence-Content Indifferent |
| PV1-19.4.3 | Universal ID Type     | NPI               | Presence-Configuration       |
| PV1-36     | Discharge Disposition |                   | NonPresence                  |
| PV1-44     | Admit Date/Time       |                   |                              |
| PV1-44.1   | Time                  | 201002010730      | Presence-Content Indifferent |

## OBX[\*]

## OBX : Observation/Result

| Location | Data Element                    | Data                | Categorization            |
|----------|---------------------------------|---------------------|---------------------------|
| OBX-1    | Set ID - OBX                    | 1                   | Value-Profile Fixed       |
| OBX-2    | Value Type                      | CWE                 | Value-Test Case Fixed     |
| OBX-3    | Observation Identifier          |                     |                           |
| OBX-3.1  | Identifier                      | SS003               | Value-Test Case Fixed     |
| OBX-3.2  | Text                            | Facility/Visit Type | Presence-Test Case Proper |
| OBX-3.3  | Name of Coding System           | PHINQUESTION        | Value-Profile Fixed       |
| OBX-5    | Observation Value               |                     |                           |
| OBX-5.1  | Identifier                      | 261QE0002X          | Value-Test Case Fixed     |
| OBX-5.2  | Text                            | Emergency Care      | Presence-Test Case Proper |
| OBX-5.3  | Name of Coding System           | HCPTNUCC            | Value-Profile Fixed       |
| OBX-5.4  | Alternate Identifier            |                     | Indifferent               |
| OBX-5.5  | Alternate Text                  |                     | Indifferent               |
| OBX-5.6  | Name of Alternate Coding System |                     | Indifferent               |
| OBX-5.9  | Original Text                   |                     | Indifferent               |
| OBX-6    | Units                           |                     |                           |
| OBX-6.1  | Identifier                      |                     | NonPresence               |
| OBX-6.2  | Text                            |                     | NonPresence               |
| OBX-6.3  | Name of Coding System           |                     | NonPresence               |
| OBX-11   | Observation Result Status       | F                   | Value-Test Case Fixed     |

## OBX : Observation/Result

| Location | Data Element              | Data                         | Categorization            |
|----------|---------------------------|------------------------------|---------------------------|
| OBX-1    | Set ID - OBX              | 2                            | Value-Profile Fixed       |
| OBX-2    | Value Type                | NM                           | Value-Test Case Fixed     |
| OBX-3    | Observation Identifier    |                              |                           |
| OBX-3.1  | Identifier                | 21612-7                      | Value-Profile Fixed       |
| OBX-3.2  | Text                      | Age at Time Patient Reported | Presence-Test Case Proper |
| OBX-3.3  | Name of Coding System     | LN                           | Value-Profile Fixed       |
| OBX-5    | Observation Value         | 70                           | Presence-Test Case Proper |
| OBX-6    | Units                     |                              |                           |
| OBX-6.1  | Identifier                | a                            | Value-Test Case Fixed     |
| OBX-6.2  | Text                      | year                         | Presence-Test Case Proper |
| OBX-6.3  | Name of Coding System     | UCUM                         | Value-Profile Fixed       |
| OBX-11   | Observation Result Status | F                            | Value-Test Case Fixed     |

## OBX : Observation/Result

| Location | Data Element              | Data   | Categorization            |
|----------|---------------------------|--|---------------------------|
| OBX-1    | Set ID - OBX              | 3  | Value-Profile Fixed       |
| OBX-2    | Value Type                | TX   | Value-Test Case Fixed     |
| OBX-3    | Observation Identifier    |  |                           |
| OBX-3.1  | Identifier                | 8661-1                                       | Value-Profile Fixed       |
| OBX-3.2  | Text                      | Chief complaint:Find:Pt:Patient:Nom:Reported | Presence-Test Case Proper |
| OBX-3.3  | Name of Coding System     | LN   | Value-Profile Fixed       |
| OBX-5    | Observation Value         | A headache, nausea, and dizziness            | Value-Test Case Fixed     |
| OBX-6    | Units                     |  |                           |
| OBX-6.1  | Identifier                |  | Indifferent               |
| OBX-6.2  | Text                      |  | Indifferent               |
| OBX-6.3  | Name of Coding System     |  | Indifferent               |
| OBX-11   | Observation Result Status | F  | Value-Test Case Fixed     |

**OBX : Observation/Result**

| Location | Data Element              | Data    | Categorization            |
|----------|---------------------------|---------|---------------------------|
| OBX-1    | Set ID - OBX              | 4       | Value-Profile Fixed       |
| OBX-2    | Value Type                | NM      | Value-Test Case Fixed     |
| OBX-3    | Observation Identifier    |         |                           |
| OBX-3.1  | Identifier                | 8302-2  | Value-Profile Fixed       |
| OBX-3.2  | Text                      | Height  | Presence-Test Case Proper |
| OBX-3.3  | Name of Coding System     | LN      | Value-Profile Fixed       |
| OBX-5    | Observation Value         | 65      | Value-Test Case Fixed     |
| OBX-6    | Units                     |         |                           |
| OBX-6.1  | Identifier                | [in_us] | Value-Test Case Fixed     |
| OBX-6.2  | Text                      | inch    | Presence-Test Case Proper |
| OBX-6.3  | Name of Coding System     | UCUM    | Value-Profile Fixed       |
| OBX-11   | Observation Result Status | F       | Value-Test Case Fixed     |

**OBX : Observation/Result**

| Location | Data Element              | Data    | Categorization            |
|----------|---------------------------|---------|---------------------------|
| OBX-1    | Set ID - OBX              | 5       | Value-Profile Fixed       |
| OBX-2    | Value Type                | NM      | Value-Test Case Fixed     |
| OBX-3    | Observation Identifier    |         |                           |
| OBX-3.1  | Identifier                | 3141-9  | Value-Profile Fixed       |
| OBX-3.2  | Text                      | Weight  | Presence-Test Case Proper |
| OBX-3.3  | Name of Coding System     | LN      | Value-Profile Fixed       |
| OBX-5    | Observation Value         | 170     | Value-Test Case Fixed     |
| OBX-6    | Units                     |         |                           |
| OBX-6.1  | Identifier                | [lb_av] | Value-Test Case Fixed     |
| OBX-6.2  | Text                      | pound   | Presence-Test Case Proper |
| OBX-6.3  | Name of Coding System     | UCUM    | Value-Profile Fixed       |
| OBX-11   | Observation Result Status | F       | Value-Test Case Fixed     |

**OBX : Observation/Result**

| Location | Data Element                    | Data                         | Categorization            |
|----------|---------------------------------|------------------------------|---------------------------|
| OBX-1    | Set ID - OBX                    | 6                            | Value-Profile Fixed       |
| OBX-2    | Value Type                      | CWE                          | Value-Test Case Fixed     |
| OBX-3    | Observation Identifier          |                              |                           |
| OBX-3.1  | Identifier                      | 72166-2                      | Value-Test Case Fixed     |
| OBX-3.2  | Text                            | Tobacco Smoking Status       | Presence-Test Case Proper |
| OBX-3.3  | Name of Coding System           | LN                           | Value-Profile Fixed       |
| OBX-5    | Observation Value               |                              |                           |
| OBX-5.1  | Identifier                      | 428061000124105              | Value-Test Case Fixed     |
| OBX-5.2  | Text                            | Current Light tobacco smoker | Presence-Test Case Proper |
| OBX-5.3  | Name of Coding System           | SCT                          | Value-Profile Fixed       |
| OBX-5.4  | Alternate Identifier            |                              | Indifferent               |
| OBX-5.5  | Alternate Text                  |                              | Indifferent               |
| OBX-5.6  | Name of Alternate Coding System |                              | Indifferent               |
| OBX-5.9  | Original Text                   |                              | Indifferent               |
| OBX-6    | Units                           |                              |                           |
| OBX-6.1  | Identifier                      |                              | NonPresence               |
| OBX-6.2  | Text                            |                              | NonPresence               |
| OBX-6.3  | Name of Coding System           |                              | NonPresence               |
| OBX-11   | Observation Result Status       | F                            | Value-Test Case Fixed     |

## Test Data Specification

### Patient Information

| Element                     | Data                                  |
|-----------------------------|---------------------------------------|
| Name                        | Coded Pseudo-Name to ensure anonymity |
| Sex                         | Male                                  |
| Race1                       | White                                 |
| Race2                       | American Indian or Alaska Native      |
| Race3                       | Other race                            |
| Ethnic Group                | Not Hispanic or Latino                |
| City                        | Oklahoma City                         |
| State                       | Oklahoma                              |
| Zip Code                    | 74852                                 |
| Country                     | UNITED STATES                         |
| County/Parish Code          | 40125                                 |
| Patient Death Date and Time |                                       |
| Patient Death Indicator     |                                       |

### Visit Information

| Element                   | Data               |
|---------------------------|--------------------|
| Admit or Encounter Reason |                    |
| Admit Date and Time       | 02/01/2010 7:30 AM |
| Patient Class             | Emergency          |
| Diagnosis Type            |                    |

## Observations[\*]

### Observation Results Information

| Element                    | Data  |
|----------------------------|---|
| Observation Identifier     | Facility / Visit Type                                       |
| Observation Value          | Emergency Care  |
| Units                      |   |
| Observation Results Status | Final results; Can only be changed with a corrected result. |

### Observation Results Information

| Element                    | Data  |
|----------------------------|---|
| Observation Identifier     | Age Time Patient Reported                                   |
| Observation Value          | 70  |
| Units                      | year  |
| Observation Results Status | Final results; Can only be changed with a corrected result. |

### Observation Results Information

| Element                    | Data  |
|----------------------------|---|
| Observation Identifier     | Chief complaint:Find:Pt:Patient:Nom:Reported                |
| Observation Value          | A headache, nausea, and dizziness                           |
| Units                      |   |
| Observation Results Status | Final results; Can only be changed with a corrected result. |

### Observation Results Information

| Element                    | Data  |
|----------------------------|---|
| Observation Identifier     | Height  |
| Observation Value          | 65  |
| Units                      | inch  |
| Observation Results Status | Final results; Can only be changed with a corrected result. |

### Observation Results Information

| Element                    | Data  |
|----------------------------|---|
| Observation Identifier     | Weight  |
| Observation Value          | 170   |
| Units                      | pound   |
| Observation Results Status | Final results; Can only be changed with a corrected result. |

### Observation Results Information

| Element                    | Data  |
|----------------------------|---|
| Observation Identifier     | Tobacco Smoking Status                                      |
| Observation Value          | Current Light tobacco smoker                                |
| Units                      |   |
| Observation Results Status | Final results; Can only be changed with a corrected result. |

### 3.1.2. SS-ED-3.2\_Update\_A08

ED sends updated Syndromic Surveillance message to state health department.

#### Test Story

##### Description

At 8:00 AM the attending physician determines, with lab results indicating that the patient is suffering from severe metabolic acidosis, that the patient has carbon monoxide poisoning. She orders a hospital admission for the patient to receive hyperbaric oxygen therapy (HBOT), overnight observation, and a full neurological assessment. At 8:10 AM, the physician updates the patient's record with a working diagnosis, coded with the SNOMED CT code 242383002 (accidental exposure to carbon monoxide), and orders admission for carbon monoxide poisoning. Southern Midwest Medical Center reports syndromic surveillance data to the city health department (CHD). At 8:15 AM on February 1, 2010, the hospital's electronic health record module for syndromic surveillance data assembles and transmits an Update message about this encounter to SHD.

##### Comments

This Test Case provides an example of an ED visit for which the patient's chief complaint is captured as free-text, working diagnosis and final diagnosis are captured with SNOMED CT codes, the patient is discharged from the ED and admitted for inpatient care, and the Admit/Encounter Reason is captured with a SNOMED CT code. Dates and times are provided in this test case to illustrate the sequence of clinical and messaging events. Since the exact dates and times are not reproducible when modeling the Test Case with a Health IT Module, only date and time format will be validated within tester submitted test data.

##### Pre-condition

A04-Registration message is sent before A08-Update message.

##### Post-Condition

No PostCondition

##### Test Objectives

This test step examines a Health IT Module's ability to create ADT^A08 Update message, within the parameters of the PHIN Messaging Guide's conformance requirements.

##### Evaluation Criteria

Message Validation Report

##### Notes

Per ONC, for certification testing HIT developers must demonstrate that their system supports either the ICD-10 CM or SNOMED CT value set and are no longer required to demonstrate support for the ICD-9 CM value set (this policy is not conformant to the PHIN Syndromic Surveillance Messaging Guide, Rel2.0, April 2015).

A SNOMED CT code is provided in the test data for coding the working diagnosis. The Tool is designed to accept the following SNOMED CT codes without generating an error related to the working diagnosis:

?242383002 - Accidental exposure to carbon monoxide (used in Test Story)

?420057003 - Accidental poisoning by carbon monoxide



## ?95875007 - Exposure to carbon monoxide (event)

If the HIT developer uses a different but equivalent SNOMED CT code than the ones provided/accepted or an equivalent ICD-10 CM code, the Tester may ignore errors generated by the Test Tool related to incorrect code/name of coding system when the SNOMED CT or ICD-10 CM code data used in the message are determined via visual inspection to be valid data.

The ICD-10 CM diagnosis code is acceptable with or without decimals.

Visit Number ID (PV1-19.1) for the ADT^A04, ADT^A08, and ADT^A03 messages in this Test Case must be populated with the same value to reflect the requirement in real-world installations. The Test Tool does not automatically test for this requirement, so Testers must manually inspect the messages to verify that the PV1-19.1 value is the same for the first three Test Step messages for this Test Case.

## Message Contents

### MSH : Message Header

| Location | Data Element                    | Data                     | Categorization               |
|----------|---------------------------------|--------------------------|------------------------------|
| MSH-1    | Field Separator                 |                          | Value-Profile Fixed          |
| MSH-2    | Encoding Characters             | ^~\&                     | Value-Profile Fixed          |
| MSH-4    | Sending Facility                |                          |                              |
| MSH-4.1  | Namespace ID                    | SthrnMdwstMedCntr        | Presence-Configuration       |
| MSH-4.2  | Universal ID                    | 1231231236               | Presence-Configuration       |
| MSH-4.3  | Universal ID Type               | NPI                      | Presence-Configuration       |
| MSH-7    | Date/Time Of Message            |                          |                              |
| MSH-7.1  | Time                            | 201002010815             | Presence-System Generated    |
| MSH-9    | Message Type                    |                          |                              |
| MSH-9.1  | Message Code                    | ADT                      | Value-Profile Fixed          |
| MSH-9.2  | Trigger Event                   | A08                      | Value-Profile Fixed          |
| MSH-9.3  | Message Structure               | ADT_A01                  | Value-Profile Fixed          |
| MSH-10   | Message Control ID              | NIST-SS-003.21           | Presence-System Generated    |
| MSH-11   | Processing ID                   |                          |                              |
| MSH-11.1 | Processing ID                   | P                        | Presence-Content Indifferent |
| MSH-12   | Version ID                      |                          |                              |
| MSH-12.1 | Version ID                      | 2.5.1                    | Value-Profile Fixed          |
| MSH-15   | Accept Acknowledgment Type      | AL                       | Value-Profile Fixed          |
| MSH-16   | Application Acknowledgment Type |                          | Indifferent                  |
| MSH-21   | Message Profile Identifier      |                          |                              |
| MSH-21.1 | Entity Identifier               | PH_SS-Ack                | Value-Profile Fixed          |
| MSH-21.2 | Namespace ID                    | SS Sender                | Value-Profile Fixed          |
| MSH-21.3 | Universal ID                    | 2.16.840.1.114222.4.10.3 | Value-Profile Fixed          |
| MSH-21.4 | Universal ID Type               | ISO                      | Value-Profile Fixed          |

### EVN : Event Type

| Location | Data Element       | Data              | Categorization            |
|----------|--------------------|-------------------|---------------------------|
| EVN-2    | Recorded Date/Time |                   |                           |
| EVN-2.1  | Time               | 201002010810      | Presence-System Generated |
| EVN-7    | Event Facility     |                   |                           |
| EVN-7.1  | Namespace ID       | SthrnMdwstMedCntr | Presence-Configuration    |
| EVN-7.2  | Universal ID       | 1231231236        | Presence-Configuration    |
| EVN-7.3  | Universal ID Type  | NPI               | Presence-Configuration    |

**PID : Patient Identification**

| Location    | Data Element            | Data                             | Categorization               |
|-------------|-------------------------|----------------------------------|------------------------------|
| PID-1       | Set ID - PID            | 1                                | Value-Profile Fixed          |
| PID-3       | Patient Identifier List |                                  |                              |
| PID-3.1     | ID Number               | 3333                             | Presence-Content Indifferent |
| PID-3.4     | Assigning Authority     |                                  |                              |
| PID-3.4.1   | Namespace ID            | SthrnMdwstMedCntr                | Presence-Content Indifferent |
| PID-3.4.2   | Universal ID            | 1231231236                       | Presence-Content Indifferent |
| PID-3.4.3   | Universal ID Type       | NPI                              | Presence-Configuration       |
| PID-5[1]    | Patient Name            |                                  |                              |
| PID-5[1].7  | Name Type Code          |                                  | NonPresence                  |
| PID-5[2]    | Patient Name            |                                  |                              |
| PID-5[2].7  | Name Type Code          | S                                | Value-Test Case Fixed        |
| PID-8       | Administrative Sex      | M                                | Value-Test Case Fixed        |
| PID-10[1]   | Race                    |                                  |                              |
| PID-10[1].1 | Identifier              | 2106-3                           | Value-Test Case Fixed        |
| PID-10[1].2 | Text                    | White                            | Presence-Test Case Proper    |
| PID-10[1].3 | Name of Coding System   | CDCREC                           | Value-Profile Fixed          |
| PID-10[2]   | Race                    |                                  |                              |
| PID-10[2].1 | Identifier              | 1002-5                           | Value-Test Case Fixed        |
| PID-10[2].2 | Text                    | American Indian or Alaska Native | Presence-Test Case Proper    |
| PID-10[2].3 | Name of Coding System   | CDCREC                           | Value-Profile Fixed          |
| PID-10[3]   | Race                    |                                  |                              |
| PID-10[3].1 | Identifier              | 2131-1                           | Value-Test Case Fixed        |
| PID-10[3].2 | Text                    | Other race                       | Presence-Test Case Proper    |
| PID-10[3].3 | Name of Coding System   | CDCREC                           | Value-Profile Fixed          |
| PID-11      | Patient Address         |                                  |                              |
| PID-11.3    | City                    | Oklahoma City                    | Presence-Content Indifferent |
| PID-11.4    | State or Province       | 40                               | Presence-Content Indifferent |
| PID-11.5    | Zip or Postal Code      | 74852                            | Presence-Content Indifferent |
| PID-11.6    | Country                 | USA                              | Presence-Content Indifferent |
| PID-11.9    | County/Parish Code      | 40125                            | Presence-Content Indifferent |
| PID-22      | Ethnic Group            |                                  |                              |
| PID-22.1    | Identifier              | 2186-5                           | Value-Test Case Fixed        |
| PID-22.2    | Text                    | Not Hispanic or Latino           | Presence-Test Case Proper    |
| PID-22.3    | Name of Coding System   | CDCREC                           | Value-Profile Fixed          |

**PV1 : Patient Visit**

| Location   | Data Element          | Data              | Categorization               |
|------------|-----------------------|-------------------|------------------------------|
| PV1-1      | Set ID - PV1          | 1                 | Value-Profile Fixed          |
| PV1-2      | Patient Class         | E                 | Value-Test Case Fixed        |
| PV1-19     | Visit Number          |                   |                              |
| PV1-19.1   | ID Number             | 3333_001          | Presence-Content Indifferent |
| PV1-19.4   | Assigning Authority   |                   |                              |
| PV1-19.4.1 | Namespace ID          | SthrnMdwstMedCntr | Presence-Content Indifferent |
| PV1-19.4.2 | Universal ID          | 1231231236        | Presence-Content Indifferent |
| PV1-19.4.3 | Universal ID Type     | NPI               | Presence-Configuration       |
| PV1-36     | Discharge Disposition |                   | NonPresence                  |
| PV1-44     | Admit Date/Time       |                   |                              |
| PV1-44.1   | Time                  | 201002010730      | Presence-Content Indifferent |
| PV1-45     | Discharge Date/Time   |                   |                              |
| PV1-45.1   | Time                  |                   | NonPresence                  |

OBX[\*]

## OBX : Observation/Result

| Location | Data Element                    | Data                | Categorization            |
|----------|---------------------------------|---------------------|---------------------------|
| OBX-1    | Set ID - OBX                    | 1                   | Value-Profile Fixed       |
| OBX-2    | Value Type                      | CWE                 | Value-Test Case Fixed     |
| OBX-3    | Observation Identifier          |                     |                           |
| OBX-3.1  | Identifier                      | SS003               | Value-Test Case Fixed     |
| OBX-3.2  | Text                            | Facility/Visit Type | Presence-Test Case Proper |
| OBX-3.3  | Name of Coding System           | PHINQUESTION        | Value-Profile Fixed       |
| OBX-5    | Observation Value               |                     |                           |
| OBX-5.1  | Identifier                      | 261QE0002X          | Value-Test Case Fixed     |
| OBX-5.2  | Text                            | Emergency Care      | Presence-Test Case Proper |
| OBX-5.3  | Name of Coding System           | HCPTNUCC            | Value-Profile Fixed       |
| OBX-5.4  | Alternate Identifier            |                     | Indifferent               |
| OBX-5.5  | Alternate Text                  |                     | Indifferent               |
| OBX-5.6  | Name of Alternate Coding System |                     | Indifferent               |
| OBX-5.9  | Original Text                   |                     | Indifferent               |
| OBX-6    | Units                           |                     |                           |
| OBX-6.1  | Identifier                      |                     | NonPresence               |
| OBX-6.2  | Text                            |                     | NonPresence               |
| OBX-6.3  | Name of Coding System           |                     | NonPresence               |
| OBX-11   | Observation Result Status       | F                   | Value-Test Case Fixed     |

## OBX : Observation/Result

| Location | Data Element              | Data                         | Categorization            |
|----------|---------------------------|------------------------------|---------------------------|
| OBX-1    | Set ID - OBX              | 2                            | Value-Profile Fixed       |
| OBX-2    | Value Type                | NM                           | Value-Test Case Fixed     |
| OBX-3    | Observation Identifier    |                              |                           |
| OBX-3.1  | Identifier                | 21612-7                      | Value-Profile Fixed       |
| OBX-3.2  | Text                      | Age at Time Patient Reported | Presence-Test Case Proper |
| OBX-3.3  | Name of Coding System     | LN                           | Value-Profile Fixed       |
| OBX-5    | Observation Value         | 70                           | Presence-Test Case Proper |
| OBX-6    | Units                     |                              |                           |
| OBX-6.1  | Identifier                | a                            | Value-Test Case Fixed     |
| OBX-6.2  | Text                      | year                         | Presence-Test Case Proper |
| OBX-6.3  | Name of Coding System     | UCUM                         | Value-Profile Fixed       |
| OBX-11   | Observation Result Status | F                            | Value-Test Case Fixed     |

## OBX : Observation/Result

| Location | Data Element              | Data   | Categorization            |
|----------|---------------------------|--|---------------------------|
| OBX-1    | Set ID - OBX              | 3  | Value-Profile Fixed       |
| OBX-2    | Value Type                | TX   | Value-Test Case Fixed     |
| OBX-3    | Observation Identifier    |  |                           |
| OBX-3.1  | Identifier                | 8661-1                                       | Value-Profile Fixed       |
| OBX-3.2  | Text                      | Chief complaint:Find:Pt:Patient:Nom:Reported | Presence-Test Case Proper |
| OBX-3.3  | Name of Coding System     | LN   | Value-Profile Fixed       |
| OBX-5    | Observation Value         | A headache, nausea, and dizziness            | Value-Test Case Fixed     |
| OBX-6    | Units                     |  |                           |
| OBX-6.1  | Identifier                |  | Indifferent               |
| OBX-6.2  | Text                      |  | Indifferent               |
| OBX-6.3  | Name of Coding System     |  | Indifferent               |
| OBX-11   | Observation Result Status | F  | Value-Test Case Fixed     |

**OBX : Observation/Result**

| Location | Data Element              | Data    | Categorization            |
|----------|---------------------------|---------|---------------------------|
| OBX-1    | Set ID - OBX              | 4       | Value-Profile Fixed       |
| OBX-2    | Value Type                | NM      | Value-Test Case Fixed     |
| OBX-3    | Observation Identifier    |         |                           |
| OBX-3.1  | Identifier                | 8302-2  | Value-Profile Fixed       |
| OBX-3.2  | Text                      | Height  | Presence-Test Case Proper |
| OBX-3.3  | Name of Coding System     | LN      | Value-Profile Fixed       |
| OBX-5    | Observation Value         | 65      | Value-Test Case Fixed     |
| OBX-6    | Units                     |         |                           |
| OBX-6.1  | Identifier                | [in_us] | Value-Test Case Fixed     |
| OBX-6.2  | Text                      | inch    | Presence-Test Case Proper |
| OBX-6.3  | Name of Coding System     | UCUM    | Value-Profile Fixed       |
| OBX-11   | Observation Result Status | F       | Value-Test Case Fixed     |

**OBX : Observation/Result**

| Location | Data Element              | Data    | Categorization            |
|----------|---------------------------|---------|---------------------------|
| OBX-1    | Set ID - OBX              | 5       | Value-Profile Fixed       |
| OBX-2    | Value Type                | NM      | Value-Test Case Fixed     |
| OBX-3    | Observation Identifier    |         |                           |
| OBX-3.1  | Identifier                | 3141-9  | Value-Profile Fixed       |
| OBX-3.2  | Text                      | Weight  | Presence-Test Case Proper |
| OBX-3.3  | Name of Coding System     | LN      | Value-Profile Fixed       |
| OBX-5    | Observation Value         | 170     | Value-Test Case Fixed     |
| OBX-6    | Units                     |         |                           |
| OBX-6.1  | Identifier                | [lb_av] | Value-Test Case Fixed     |
| OBX-6.2  | Text                      | pound   | Presence-Test Case Proper |
| OBX-6.3  | Name of Coding System     | UCUM    | Value-Profile Fixed       |
| OBX-11   | Observation Result Status | F       | Value-Test Case Fixed     |

**OBX : Observation/Result**

| Location | Data Element                    | Data                         | Categorization            |
|----------|---------------------------------|------------------------------|---------------------------|
| OBX-1    | Set ID - OBX                    | 6                            | Value-Profile Fixed       |
| OBX-2    | Value Type                      | CWE                          | Value-Test Case Fixed     |
| OBX-3    | Observation Identifier          |                              |                           |
| OBX-3.1  | Identifier                      | 72166-2                      | Value-Test Case Fixed     |
| OBX-3.2  | Text                            | Tobacco Smoking Status       | Presence-Test Case Proper |
| OBX-3.3  | Name of Coding System           | LN                           | Value-Profile Fixed       |
| OBX-5    | Observation Value               |                              |                           |
| OBX-5.1  | Identifier                      | 428061000124105              | Value-Test Case Fixed     |
| OBX-5.2  | Text                            | Current Light tobacco smoker | Presence-Test Case Proper |
| OBX-5.3  | Name of Coding System           | SCT                          | Value-Profile Fixed       |
| OBX-5.4  | Alternate Identifier            |                              | Indifferent               |
| OBX-5.5  | Alternate Text                  |                              | Indifferent               |
| OBX-5.6  | Name of Alternate Coding System |                              | Indifferent               |
| OBX-5.9  | Original Text                   |                              | Indifferent               |
| OBX-6    | Units                           |                              |                           |
| OBX-6.1  | Identifier                      |                              | NonPresence               |
| OBX-6.2  | Text                            |                              | NonPresence               |
| OBX-6.3  | Name of Coding System           |                              | NonPresence               |
| OBX-11   | Observation Result Status       | F                            | Value-Test Case Fixed     |

**DG1 : Diagnosis**

| Location | Data Element          | Data                                   | Categorization             |
|----------|-----------------------|--|----------------------------|
| DG1-1    | Set ID - DG1          | 1                                      | Value-Profile Fixed        |
| DG1-3    | Diagnosis Code - DG1  |  |                            |
| DG1-3.1  | Identifier            | 242383002                              | Value-Test Case Fixed List |
| DG1-3.2  | Text                  | Accidental exposure to carbon monoxide | Presence-Test Case Proper  |
| DG1-3.3  | Name of Coding System | SCT                                    | Value-Test Case Fixed      |
| DG1-6    | Diagnosis Type        | W                                      | Value-Test Case Fixed      |

**Test Data Specification****Patient Information**

| Element                     | Data                                  |
|-----------------------------|---------------------------------------|
| Name                        | Coded Pseudo-Name to ensure anonymity |
| Sex                         | Male                                  |
| Race1                       | White                                 |
| Race2                       | American Indian or Alaska Native      |
| Race3                       | Other race                            |
| Ethnic Group                | Not Hispanic or Latino                |
| City                        | Oklahoma City                         |
| State                       | Oklahoma                              |
| Zip Code                    | 74852                                 |
| Country                     | UNITED STATES                         |
| County/Parish Code          | 40125                                 |
| Patient Death Date and Time |                                       |
| Patient Death Indicator     |                                       |

**Visit Information**

| Element                   | Data                                   |
|---------------------------|--|
| Admit or Encounter Reason |  |
| Admit Date and Time       | 02/01/2010 7:30 AM                     |
| Patient Class             | Emergency                              |
| Discharge Disposition     |  |
| Discharge Date/Time       |  |
| Diagnosis Type            | Working                                |
| Diagnosis                 | Accidental exposure to carbon monoxide |

## Observations[\*]

### Observation Results Information

| Element                    | Data  |
|----------------------------|---|
| Observation Identifier     | Facility / Visit Type                                       |
| Observation Value          | Emergency Care  |
| Units                      |   |
| Observation Results Status | Final results; Can only be changed with a corrected result. |

### Observation Results Information

| Element                    | Data  |
|----------------------------|---|
| Observation Identifier     | Age Time Patient Reported                                   |
| Observation Value          | 70  |
| Units                      | year  |
| Observation Results Status | Final results; Can only be changed with a corrected result. |

### Observation Results Information

| Element                    | Data  |
|----------------------------|---|
| Observation Identifier     | Chief complaint:Find:Pt:Patient:Nom:Reported                |
| Observation Value          | A headache, nausea, and dizziness                           |
| Units                      |   |
| Observation Results Status | Final results; Can only be changed with a corrected result. |

### Observation Results Information

| Element                    | Data  |
|----------------------------|---|
| Observation Identifier     | Height  |
| Observation Value          | 65  |
| Units                      | inch  |
| Observation Results Status | Final results; Can only be changed with a corrected result. |

### Observation Results Information

| Element                    | Data  |
|----------------------------|---|
| Observation Identifier     | Weight  |
| Observation Value          | 170   |
| Units                      | pound   |
| Observation Results Status | Final results; Can only be changed with a corrected result. |

### Observation Results Information

| Element                    | Data  |
|----------------------------|---|
| Observation Identifier     | Tobacco Smoking Status                                      |
| Observation Value          | Current Light tobacco smoker                                |
| Units                      |   |
| Observation Results Status | Final results; Can only be changed with a corrected result. |

### 3.1.3. SS-ED-3.3\_Discharge\_A03

Patient is discharged (dispositioned) from ED in preparation for admission to hospital.

#### Test Story

##### Description

The patient is quickly discharged from the emergency department (ED) and transported within the facility to a hyperbaric chamber for HBOT. At 8:25 AM, ED staff complete the patient record and administratively discharge the patient from the ED. The working diagnosis is updated to final diagnosis. The patient's final diagnosis is, "Accidental exposure to carbon monoxide," (SNOMED CT code 242383002). Southern Midwest Medical Center reports syndromic surveillance data to the city health department (CHD). At 8:30 AM on February 1, 2010, the hospital's electronic health record module for syndromic surveillance data assembles and transmits a Discharge message about this encounter to SHD.

##### Comments

This Test Case provides an example of an ED visit for which the patient's chief complaint is captured as free-text, working diagnosis and final diagnosis are captured with SNOMED CT codes, the patient is discharged from the ED and admitted for inpatient care, and the Admit/Encounter Reason is captured with a SNOMED CT code. Dates and times are provided in this test case to illustrate the sequence of clinical and messaging events. Since the exact dates and times are not reproducible when modeling the Test Case with a Health IT Module, only date and time format will be validated within tester submitted test data.

##### Pre-condition

A08-Update message is sent before A03-Discharge message.

##### Post-Condition

No PostCondition

##### Test Objectives

This test step examines an Health IT Module's ability to create ADT^A03 Discharge message within the PHIN Messaging Guide's conformance requirements.

##### Evaluation Criteria

Message Validation Report

##### Notes

Per ONC, for certification testing HIT developers must demonstrate that their system supports either the ICD-10 CM or SNOMED CT value set and are no longer required to demonstrate support for the ICD-9 CM value set (this policy is not conformant to the PHIN Syndromic Surveillance Messaging Guide, Rel2.0, April 2015).

A SNOMED CT code is provided in the test data for coding the final diagnosis. The Tool is designed to accept the following SNOMED CT codes without generating an error related to the final diagnosis:

?242383002 - Accidental exposure to carbon monoxide (used in Test Story)

?420057003 - Accidental poisoning by carbon monoxide

?95875007 - Exposure to carbon monoxide (event)

If the HIT developer uses a different but equivalent SNOMED CT code than the ones provided/accepted or an equivalent ICD-10 CM code, the Tester may ignore errors generated by the Test Tool related to incorrect code/name of coding system when the SNOMED CT or ICD-10 CM code data used in the message are determined via visual inspection to be valid data.

The ICD-10 CM diagnosis code is acceptable with or without decimals.

This test case does not prescribe the method used by the Health IT Module to change a working diagnosis to a final diagnosis. The test case only validates a specific ADT message type.

Visit Number ID (PV1-19.1) for the ADT^A04, ADT^A08, and ADT^A03 messages in this Test Case must be populated with the same value to reflect the requirement in real-world installations. The Test Tool does not automatically test for this requirement, so Testers must manually inspect the messages to verify that the PV1-19.1 value is the same for the first three Test Step messages for this Test Case.

## Message Contents

MSH : Message Header

| Location | Data Element                    | Data                     | Categorization               |
|----------|---------------------------------|--------------------------|------------------------------|
| MSH-1    | Field Separator                 |                          | Value-Profile Fixed          |
| MSH-2    | Encoding Characters             | ^~\&                     | Value-Profile Fixed          |
| MSH-4    | Sending Facility                |                          |                              |
| MSH-4.1  | Namespace ID                    | SthrnMdwstMedCntr        | Presence-Configuration       |
| MSH-4.2  | Universal ID                    | 1231231236               | Presence-Configuration       |
| MSH-4.3  | Universal ID Type               | NPI                      | Presence-Configuration       |
| MSH-7    | Date/Time Of Message            |                          |                              |
| MSH-7.1  | Time                            | 201002010830             | Presence-System Generated    |
| MSH-9    | Message Type                    |                          |                              |
| MSH-9.1  | Message Code                    | ADT                      | Value-Profile Fixed          |
| MSH-9.2  | Trigger Event                   | A03                      | Value-Profile Fixed          |
| MSH-9.3  | Message Structure               | ADT_A03                  | Value-Profile Fixed          |
| MSH-10   | Message Control ID              | NIST-SS-003.31           | Presence-System Generated    |
| MSH-11   | Processing ID                   |                          |                              |
| MSH-11.1 | Processing ID                   | P                        | Presence-Content Indifferent |
| MSH-12   | Version ID                      |                          |                              |
| MSH-12.1 | Version ID                      | 2.5.1                    | Value-Profile Fixed          |
| MSH-15   | Accept Acknowledgment Type      | AL                       | Value-Profile Fixed          |
| MSH-16   | Application Acknowledgment Type |                          | Indifferent                  |
| MSH-21   | Message Profile Identifier      |                          |                              |
| MSH-21.1 | Entity Identifier               | PH_SS-Ack                | Value-Profile Fixed          |
| MSH-21.2 | Namespace ID                    | SS Sender                | Value-Profile Fixed          |
| MSH-21.3 | Universal ID                    | 2.16.840.1.114222.4.10.3 | Value-Profile Fixed          |
| MSH-21.4 | Universal ID Type               | ISO                      | Value-Profile Fixed          |



**EVN : Event Type**

| Location | Data Element       | Data              | Categorization            |
|----------|--------------------|-------------------|---------------------------|
| EVN-2    | Recorded Date/Time |                   |                           |
| EVN-2.1  | Time               | 201002010825      | Presence-System Generated |
| EVN-7    | Event Facility     |                   |                           |
| EVN-7.1  | Namespace ID       | SthrnMdwstMedCntr | Presence-Configuration    |
| EVN-7.2  | Universal ID       | 1231231236        | Presence-Configuration    |
| EVN-7.3  | Universal ID Type  | NPI               | Presence-Configuration    |

**PID : Patient Identification**

| Location    | Data Element            | Data                             | Categorization               |
|-------------|-------------------------|----------------------------------|------------------------------|
| PID-1       | Set ID - PID            | 1                                | Value-Profile Fixed          |
| PID-3       | Patient Identifier List |                                  |                              |
| PID-3.1     | ID Number               | 3333                             | Presence-Content Indifferent |
| PID-3.4     | Assigning Authority     |                                  |                              |
| PID-3.4.1   | Namespace ID            | SthrnMdwstMedCntr                | Presence-Content Indifferent |
| PID-3.4.2   | Universal ID            | 1231231236                       | Presence-Content Indifferent |
| PID-3.4.3   | Universal ID Type       | NPI                              | Presence-Configuration       |
| PID-5[1]    | Patient Name            |                                  |                              |
| PID-5[1].7  | Name Type Code          |                                  | NonPresence                  |
| PID-5[2]    | Patient Name            |                                  |                              |
| PID-5[2].7  | Name Type Code          | S                                | Value-Test Case Fixed        |
| PID-8       | Administrative Sex      | M                                | Value-Test Case Fixed        |
| PID-10[1]   | Race                    |                                  |                              |
| PID-10[1].1 | Identifier              | 2106-3                           | Value-Test Case Fixed        |
| PID-10[1].2 | Text                    | White                            | Presence-Test Case Proper    |
| PID-10[1].3 | Name of Coding System   | CDCREC                           | Value-Profile Fixed          |
| PID-10[2]   | Race                    |                                  |                              |
| PID-10[2].1 | Identifier              | 1002-5                           | Value-Test Case Fixed        |
| PID-10[2].2 | Text                    | American Indian or Alaska Native | Presence-Test Case Proper    |
| PID-10[2].3 | Name of Coding System   | CDCREC                           | Value-Profile Fixed          |
| PID-10[3]   | Race                    |                                  |                              |
| PID-10[3].1 | Identifier              | 2131-1                           | Value-Test Case Fixed        |
| PID-10[3].2 | Text                    | Other race                       | Presence-Test Case Proper    |
| PID-10[3].3 | Name of Coding System   | CDCREC                           | Value-Profile Fixed          |
| PID-11      | Patient Address         |                                  |                              |
| PID-11.3    | City                    | Oklahoma City                    | Presence-Content Indifferent |
| PID-11.4    | State or Province       | 40                               | Presence-Content Indifferent |
| PID-11.5    | Zip or Postal Code      | 74852                            | Presence-Content Indifferent |
| PID-11.6    | Country                 | USA                              | Presence-Content Indifferent |
| PID-11.9    | County/Parish Code      | 40125                            | Presence-Content Indifferent |
| PID-22      | Ethnic Group            |                                  |                              |
| PID-22.1    | Identifier              | 2186-5                           | Value-Test Case Fixed        |
| PID-22.2    | Text                    | Not Hispanic or Latino           | Presence-Test Case Proper    |
| PID-22.3    | Name of Coding System   | CDCREC                           | Value-Profile Fixed          |

**PV1 : Patient Visit**

| Location   | Data Element          | Data              | Categorization               |
|------------|-----------------------|-------------------|------------------------------|
| PV1-1      | Set ID - PV1          | 1                 | Value-Profile Fixed          |
| PV1-2      | Patient Class         | E                 | Value-Test Case Fixed        |
| PV1-19     | Visit Number          |                   |                              |
| PV1-19.1   | ID Number             | 3333_001          | Presence-Content Indifferent |
| PV1-19.4   | Assigning Authority   |                   |                              |
| PV1-19.4.1 | Namespace ID          | SthrnMdwstMedCntr | Presence-Content Indifferent |
| PV1-19.4.2 | Universal ID          | 1231231236        | Presence-Content Indifferent |
| PV1-19.4.3 | Universal ID Type     | NPI               | Presence-Configuration       |
| PV1-36     | Discharge Disposition | 09                | Value-Test Case Fixed        |
| PV1-44     | Admit Date/Time       |                   |                              |
| PV1-44.1   | Time                  | 201002010730      | Presence-Content Indifferent |
| PV1-45     | Discharge Date/Time   |                   |                              |
| PV1-45.1   | Time                  | 201002010825      | Presence-Content Indifferent |

**DG1 : Diagnosis**

| Location | Data Element          | Data                                   | Categorization             |
|----------|-----------------------|--|----------------------------|
| DG1-1    | Set ID - DG1          | 1                                      | Value-Profile Fixed        |
| DG1-3    | Diagnosis Code - DG1  |  |                            |
| DG1-3.1  | Identifier            | 242383002                              | Value-Test Case Fixed List |
| DG1-3.2  | Text                  | Accidental exposure to carbon monoxide | Presence-Test Case Proper  |
| DG1-3.3  | Name of Coding System | SCT                                    | Value-Test Case Fixed      |
| DG1-6    | Diagnosis Type        | F                                      | Value-Test Case Fixed      |

**OBX[\*]**

**OBX : Observation/Result**

| Location | Data Element                    | Data                | Categorization            |
|----------|---------------------------------|---------------------|---------------------------|
| OBX-1    | Set ID - OBX                    | 1                   | Value-Profile Fixed       |
| OBX-2    | Value Type                      | CWE                 | Value-Test Case Fixed     |
| OBX-3    | Observation Identifier          |                     |                           |
| OBX-3.1  | Identifier                      | SS003               | Value-Test Case Fixed     |
| OBX-3.2  | Text                            | Facility/Visit Type | Presence-Test Case Proper |
| OBX-3.3  | Name of Coding System           | PHINQUESTION        | Value-Profile Fixed       |
| OBX-5    | Observation Value               |                     |                           |
| OBX-5.1  | Identifier                      | 261QE0002X          | Value-Test Case Fixed     |
| OBX-5.2  | Text                            | Emergency Care      | Presence-Test Case Proper |
| OBX-5.3  | Name of Coding System           | HCPTNUCC            | Value-Profile Fixed       |
| OBX-5.4  | Alternate Identifier            |                     | Indifferent               |
| OBX-5.5  | Alternate Text                  |                     | Indifferent               |
| OBX-5.6  | Name of Alternate Coding System |                     | Indifferent               |
| OBX-5.9  | Original Text                   |                     | Indifferent               |
| OBX-6    | Units                           |                     |                           |
| OBX-6.1  | Identifier                      |                     | NonPresence               |
| OBX-6.2  | Text                            |                     | NonPresence               |
| OBX-6.3  | Name of Coding System           |                     | NonPresence               |
| OBX-11   | Observation Result Status       | F                   | Value-Test Case Fixed     |

**OBX : Observation/Result**

| Location | Data Element              | Data                         | Categorization            |
|----------|---------------------------|------------------------------|---------------------------|
| OBX-1    | Set ID - OBX              | 2                            | Value-Profile Fixed       |
| OBX-2    | Value Type                | NM                           | Value-Test Case Fixed     |
| OBX-3    | Observation Identifier    |                              |                           |
| OBX-3.1  | Identifier                | 21612-7                      | Value-Profile Fixed       |
| OBX-3.2  | Text                      | Age at Time Patient Reported | Presence-Test Case Proper |
| OBX-3.3  | Name of Coding System     | LN                           | Value-Profile Fixed       |
| OBX-5    | Observation Value         | 70                           | Presence-Test Case Proper |
| OBX-6    | Units                     |                              |                           |
| OBX-6.1  | Identifier                | a                            | Value-Test Case Fixed     |
| OBX-6.2  | Text                      | year                         | Presence-Test Case Proper |
| OBX-6.3  | Name of Coding System     | UCUM                         | Value-Profile Fixed       |
| OBX-11   | Observation Result Status | F                            | Value-Test Case Fixed     |

**OBX : Observation/Result**

| Location | Data Element              | Data  | Categorization            |
|----------|---------------------------|---|---------------------------|
| OBX-1    | Set ID - OBX              | 3   | Value-Profile Fixed       |
| OBX-2    | Value Type                | TX  | Value-Test Case Fixed     |
| OBX-3    | Observation Identifier    |   |                           |
| OBX-3.1  | Identifier                | 8661-1  | Value-Profile Fixed       |
| OBX-3.2  | Text                      | Chief complaint: Find: Pt: Patient: Nom: Reported | Presence-Test Case Proper |
| OBX-3.3  | Name of Coding System     | LN  | Value-Profile Fixed       |
| OBX-5    | Observation Value         | A headache, nausea, and dizziness                 | Value-Test Case Fixed     |
| OBX-6    | Units                     |   |                           |
| OBX-6.1  | Identifier                |   | Indifferent               |
| OBX-6.2  | Text                      |   | Indifferent               |
| OBX-6.3  | Name of Coding System     |   | Indifferent               |
| OBX-11   | Observation Result Status | F   | Value-Test Case Fixed     |

**OBX : Observation/Result**

| Location | Data Element              | Data    | Categorization            |
|----------|---------------------------|---------|---------------------------|
| OBX-1    | Set ID - OBX              | 4       | Value-Profile Fixed       |
| OBX-2    | Value Type                | NM      | Value-Test Case Fixed     |
| OBX-3    | Observation Identifier    |         |                           |
| OBX-3.1  | Identifier                | 8302-2  | Value-Profile Fixed       |
| OBX-3.2  | Text                      | Height  | Presence-Test Case Proper |
| OBX-3.3  | Name of Coding System     | LN      | Value-Profile Fixed       |
| OBX-5    | Observation Value         | 65      | Value-Test Case Fixed     |
| OBX-6    | Units                     |         |                           |
| OBX-6.1  | Identifier                | [in_us] | Value-Test Case Fixed     |
| OBX-6.2  | Text                      | inch    | Presence-Test Case Proper |
| OBX-6.3  | Name of Coding System     | UCUM    | Value-Profile Fixed       |
| OBX-11   | Observation Result Status | F       | Value-Test Case Fixed     |

**OBX : Observation/Result**

| Location | Data Element              | Data    | Categorization            |
|----------|---------------------------|---------|---------------------------|
| OBX-1    | Set ID - OBX              | 5       | Value-Profile Fixed       |
| OBX-2    | Value Type                | NM      | Value-Test Case Fixed     |
| OBX-3    | Observation Identifier    |         |                           |
| OBX-3.1  | Identifier                | 3141-9  | Value-Profile Fixed       |
| OBX-3.2  | Text                      | Weight  | Presence-Test Case Proper |
| OBX-3.3  | Name of Coding System     | LN      | Value-Profile Fixed       |
| OBX-5    | Observation Value         | 170     | Value-Test Case Fixed     |
| OBX-6    | Units                     |         |                           |
| OBX-6.1  | Identifier                | [lb_av] | Value-Test Case Fixed     |
| OBX-6.2  | Text                      | pound   | Presence-Test Case Proper |
| OBX-6.3  | Name of Coding System     | UCUM    | Value-Profile Fixed       |
| OBX-11   | Observation Result Status | F       | Value-Test Case Fixed     |

**OBX : Observation/Result**

| Location | Data Element                    | Data                         | Categorization            |
|----------|---------------------------------|------------------------------|---------------------------|
| OBX-1    | Set ID - OBX                    | 6                            | Value-Profile Fixed       |
| OBX-2    | Value Type                      | CWE                          | Value-Test Case Fixed     |
| OBX-3    | Observation Identifier          |                              |                           |
| OBX-3.1  | Identifier                      | 72166-2                      | Value-Test Case Fixed     |
| OBX-3.2  | Text                            | Tobacco Smoking Status       | Presence-Test Case Proper |
| OBX-3.3  | Name of Coding System           | LN                           | Value-Profile Fixed       |
| OBX-5    | Observation Value               |                              |                           |
| OBX-5.1  | Identifier                      | 428061000124105              | Value-Test Case Fixed     |
| OBX-5.2  | Text                            | Current Light tobacco smoker | Presence-Test Case Proper |
| OBX-5.3  | Name of Coding System           | SCT                          | Value-Profile Fixed       |
| OBX-5.4  | Alternate Identifier            |                              | Indifferent               |
| OBX-5.5  | Alternate Text                  |                              | Indifferent               |
| OBX-5.6  | Name of Alternate Coding System |                              | Indifferent               |
| OBX-5.9  | Original Text                   |                              | Indifferent               |
| OBX-6    | Units                           |                              |                           |
| OBX-6.1  | Identifier                      |                              | NonPresence               |
| OBX-6.2  | Text                            |                              |                           |
| OBX-6.3  | Name of Coding System           |                              | NonPresence               |
| OBX-11   | Observation Result Status       | F                            | Value-Test Case Fixed     |

## Test Data Specification

### Patient Information

| Element                     | Data                                  |
|-----------------------------|---------------------------------------|
| Name                        | Coded Pseudo-Name to ensure anonymity |
| Sex                         | Male                                  |
| Race1                       | White                                 |
| Race2                       | American Indian or Alaska Native      |
| Race3                       | Other race                            |
| Ethnic Group                | Not Hispanic or Latino                |
| City                        | Oklahoma City                         |
| State                       | Oklahoma                              |
| Zip Code                    | 74852                                 |
| Country                     | UNITED STATES                         |
| County/Parish Code          | 40125                                 |
| Patient Death Date and Time |                                       |
| Patient Death Indicator     |                                       |

### Visit Information

| Element                   | Data                                      |
|---------------------------|---|
| Admit or Encounter Reason |   |
| Admit Date and Time       | 02/01/2010 7:30 AM                        |
| Patient Class             | Emergency                                 |
| Discharge Disposition     | Admitted as an inpatient to this hospital |
| Discharge Date/Time       | 02/01/2010 8:25 AM                        |
| Diagnosis Type            | Final                                     |
| Diagnosis                 | Accidental exposure to carbon monoxide    |

## Observations[\*]

### Observation Results Information

| Element                    | Data  |
|----------------------------|---|
| Observation Identifier     | Facility / Visit Type                                       |
| Observation Value          | Emergency Care  |
| Units                      |   |
| Observation Results Status | Final results; Can only be changed with a corrected result. |

### Observation Results Information

| Element                    | Data  |
|----------------------------|---|
| Observation Identifier     | Age Time Patient Reported                                   |
| Observation Value          | 70  |
| Units                      | year  |
| Observation Results Status | Final results; Can only be changed with a corrected result. |

### Observation Results Information

| Element                    | Data  |
|----------------------------|---|
| Observation Identifier     | Chief complaint:Find:Pt:Patient:Nom:Reported                |
| Observation Value          | A headache, nausea, and dizziness                           |
| Units                      |   |
| Observation Results Status | Final results; Can only be changed with a corrected result. |

### Observation Results Information

| Element                    | Data  |
|----------------------------|---|
| Observation Identifier     | Height  |
| Observation Value          | 65  |
| Units                      | inch  |
| Observation Results Status | Final results; Can only be changed with a corrected result. |

### Observation Results Information

| Element                    | Data  |
|----------------------------|---|
| Observation Identifier     | Weight  |
| Observation Value          | 170   |
| Units                      | pound   |
| Observation Results Status | Final results; Can only be changed with a corrected result. |

### Observation Results Information

| Element                    | Data  |
|----------------------------|---|
| Observation Identifier     | Tobacco Smoking Status                                      |
| Observation Value          | Current Light tobacco smoker                                |
| Units                      |   |
| Observation Results Status | Final results; Can only be changed with a corrected result. |

### 3.1.4. SS-ED-3.4\_Admission\_A01

Patient is prepared for admission to hospital.

#### Test Story

##### Description

While the patient is prepared for transport within the hospital for HBOT, the clinical staffers complete an admission record. The admit reason is recorded as, "Accidental exposure to carbon monoxide," (SNOMED CT code 242383002). Southern Midwest Medical Center reports syndromic surveillance data to the city health department (CHD). At 8:35 AM on February 1, 2010, the hospitals electronic health record module for syndromic surveillance data assembles and transmits an Admission message about this encounter to SHD.

##### Comments

This Test Case provides an example of an ED visit for which the patient's chief complaint is captured as free-text, working diagnosis and final diagnosis are captured with SNOMED CT codes, the patient is discharged from the ED and admitted for inpatient care, and the Admit/Encounter Reason is captured with a SNOMED CT code. Dates and times are provided in this test case to illustrate the sequence of clinical and messaging events. Since the exact dates and times are not reproducible when modeling the Test Case with a Health IT Module, only date and time format will be validated within tester submitted test data.

##### Pre-condition

A03-Discharge message is sent before A01-Admission message.

##### Post-Condition

No PostCondition

##### Test Objectives

This test step examines a Health IT Module's ability to create ADT^A01 Admission message within the PHIN Messaging Guide's conformance requirements for syndromic surveillance.

##### Evaluation Criteria

Message Validation Report

##### Notes

PV1-2 may be populated with either "E" or "I".

An OBX segment in the A01 message provides the originating visit type information through Facility/Visit Type. The admit described in the ED\_Visit\_Admit Test Scenario originated in the emergency department; therefore, "261QE0002X^Emergency Care^HCPTNUCC" is in the OBX.5 field in the Example A01 Message. Per ONC, the OBX.5 field may be populated with "1021-5^Inpatient practice setting^HSLOC" for certification testing. The Tool performs automated validation to check for either of those values.

Per ONC, for certification testing HIT developers must demonstrate that their system supports either the ICD-10 CM or SNOMED CT value set and are no longer required to demonstrate support for the ICD-9 CM value set (this policy is not conformant to the PHIN Syndromic Surveillance Messaging Guide, Rel2.0, April 2015).

A SNOMED CT code is provided in the test data for coding the admit reason. The Tool is designed to accept the following SNOMED CT codes without generating an error related to the admit/encounter reason:

?242383002 - Accidental exposure to carbon monoxide (used in Test Story)  
 ?420057003 - Accidental poisoning by carbon monoxide  
 ?95875007 - Exposure to carbon monoxide (event)

If the HIT developer uses a different but equivalent SNOMED CT code than the ones provided/accepted or an equivalent ICD-10 CM code, the Tester may ignore errors generated by the Test Tool related to incorrect code/name of coding system when the SNOMED CT or ICD-10 CM code data used in the message are determined via visual inspection to be valid data.

The ICD-10 CM code is acceptable with or without decimals.

Visit Number ID (PV1-19.1) for the ADT^A01 message in this Test Case may be populated with the same value as in the ADT^A04, ADT^A08, and ADT^A03 messages; however, as the way an actual installation works will determine whether an A01 message has the same or a different Visit Number ID in PV1-19.1 for a patient admitted from the ED, the PV1-19.1 for the ADT^A01 message is allowed to be populated with a different value than the value in the ADT^A04, ADT^A08, and ADT^A03 messages for this Test Case. Test Tool does not automatically test for this requirement, so Testers must manually inspect the message to verify whether the value of PV1-19.1 is the same as or different from the value in the other Test Step messages for this Test Case.

## Message Contents

MSH : Message Header

| Location | Data Element                    | Data                     | Categorization               |
|----------|---------------------------------|--------------------------|------------------------------|
| MSH-1    | Field Separator                 |                          | Value-Profile Fixed          |
| MSH-2    | Encoding Characters             | ^~\&                     | Value-Profile Fixed          |
| MSH-4    | Sending Facility                |                          |                              |
| MSH-4.1  | Namespace ID                    | SthrnMdwstMedCntr        | Presence-Configuration       |
| MSH-4.2  | Universal ID                    | 1231231236               | Presence-Configuration       |
| MSH-4.3  | Universal ID Type               | NPI                      | Presence-Configuration       |
| MSH-7    | Date/Time Of Message            |                          |                              |
| MSH-7.1  | Time                            | 201002010835             | Presence-System Generated    |
| MSH-9    | Message Type                    |                          |                              |
| MSH-9.1  | Message Code                    | ADT                      | Value-Profile Fixed          |
| MSH-9.2  | Trigger Event                   | A01                      | Value-Profile Fixed          |
| MSH-9.3  | Message Structure               | ADT_A01                  | Value-Profile Fixed          |
| MSH-10   | Message Control ID              | NIST-SS-003.41           | Presence-System Generated    |
| MSH-11   | Processing ID                   |                          |                              |
| MSH-11.1 | Processing ID                   | P                        | Presence-Content Indifferent |
| MSH-12   | Version ID                      |                          |                              |
| MSH-12.1 | Version ID                      | 2.5.1                    | Value-Profile Fixed          |
| MSH-15   | Accept Acknowledgment Type      | AL                       | Value-Profile Fixed          |
| MSH-16   | Application Acknowledgment Type |                          | Indifferent                  |
| MSH-21   | Message Profile Identifier      |                          |                              |
| MSH-21.1 | Entity Identifier               | PH_SS-Ack                | Value-Profile Fixed          |
| MSH-21.2 | Namespace ID                    | SS Sender                | Value-Profile Fixed          |
| MSH-21.3 | Universal ID                    | 2.16.840.1.114222.4.10.3 | Value-Profile Fixed          |
| MSH-21.4 | Universal ID Type               | ISO                      | Value-Profile Fixed          |



**EVN : Event Type**

| Location | Data Element       | Data              | Categorization               |
|----------|--------------------|-------------------|------------------------------|
| EVN-2    | Recorded Date/Time |                   |                              |
| EVN-2.1  | Time               | 201002010835      | Presence-System Generated    |
| EVN-7    | Event Facility     |                   |                              |
| EVN-7.1  | Namespace ID       | SthrnMdwstMedCntr | Presence-Content Indifferent |
| EVN-7.2  | Universal ID       | 1231231236        | Presence-Content Indifferent |
| EVN-7.3  | Universal ID Type  | NPI               | Presence-Configuration       |

**PID : Patient Identification**

| Location    | Data Element            | Data                             | Categorization               |
|-------------|-------------------------|----------------------------------|------------------------------|
| PID-1       | Set ID - PID            | 1                                | Value-Profile Fixed          |
| PID-3       | Patient Identifier List |                                  |                              |
| PID-3.1     | ID Number               | 3333                             | Presence-Content Indifferent |
| PID-3.4     | Assigning Authority     |                                  |                              |
| PID-3.4.1   | Namespace ID            | SthrnMdwstMedCntr                | Presence-Content Indifferent |
| PID-3.4.2   | Universal ID            | 1231231236                       | Presence-Content Indifferent |
| PID-3.4.3   | Universal ID Type       | NPI                              | Presence-Configuration       |
| PID-5[1]    | Patient Name            |                                  |                              |
| PID-5[1].7  | Name Type Code          |                                  | NonPresence                  |
| PID-5[2]    | Patient Name            |                                  |                              |
| PID-5[2].7  | Name Type Code          | S                                | Value-Test Case Fixed        |
| PID-8       | Administrative Sex      | M                                | Value-Test Case Fixed        |
| PID-10[1]   | Race                    |                                  |                              |
| PID-10[1].1 | Identifier              | 2106-3                           | Value-Test Case Fixed        |
| PID-10[1].2 | Text                    | White                            | Presence-Test Case Proper    |
| PID-10[1].3 | Name of Coding System   | CDCREC                           | Value-Profile Fixed          |
| PID-10[2]   | Race                    |                                  |                              |
| PID-10[2].1 | Identifier              | 1002-5                           | Value-Test Case Fixed        |
| PID-10[2].2 | Text                    | American Indian or Alaska Native | Presence-Test Case Proper    |
| PID-10[2].3 | Name of Coding System   | CDCREC                           | Value-Profile Fixed          |
| PID-10[3]   | Race                    |                                  |                              |
| PID-10[3].1 | Identifier              | 2131-1                           | Value-Test Case Fixed        |
| PID-10[3].2 | Text                    | Other race                       | Presence-Test Case Proper    |
| PID-10[3].3 | Name of Coding System   | CDCREC                           | Value-Profile Fixed          |
| PID-11      | Patient Address         |                                  |                              |
| PID-11.3    | City                    | Oklahoma City                    | Presence-Content Indifferent |
| PID-11.4    | State or Province       | 40                               | Presence-Content Indifferent |
| PID-11.5    | Zip or Postal Code      | 74852                            | Presence-Content Indifferent |
| PID-11.6    | Country                 | USA                              | Presence-Content Indifferent |
| PID-11.9    | County/Parish Code      | 40125                            | Presence-Content Indifferent |
| PID-22      | Ethnic Group            |                                  |                              |
| PID-22.1    | Identifier              | 2186-5                           | Value-Test Case Fixed        |
| PID-22.2    | Text                    | Not Hispanic or Latino           | Presence-Test Case Proper    |
| PID-22.3    | Name of Coding System   | CDCREC                           | Value-Profile Fixed          |

**PV1 : Patient Visit**

| Location   | Data Element        | Data              | Categorization               |
|------------|---------------------|-------------------|------------------------------|
| PV1-1      | Set ID - PV1        | 1                 | Value-Profile Fixed          |
| PV1-2      | Patient Class       | E                 | Value-Test Case Fixed List   |
| PV1-19     | Visit Number        |                   |                              |
| PV1-19.1   | ID Number           | 3333_001          | Presence-Content Indifferent |
| PV1-19.4   | Assigning Authority |                   |                              |
| PV1-19.4.1 | Namespace ID        | SthrnMdwstMedCntr | Presence-Content Indifferent |
| PV1-19.4.2 | Universal ID        | 1231231236        | Presence-Content Indifferent |
| PV1-19.4.3 | Universal ID Type   | NPI               | Presence-Configuration       |
| PV1-44     | Admit Date/Time     |                   |                              |
| PV1-44.1   | Time                | 201002010730      | Presence-Content Indifferent |

**PV2 : Patient Visit - Additional Information**

| Location | Data Element          | Data                                   | Categorization             |
|----------|-----------------------|--|----------------------------|
| PV2-3    | Admit Reason          |  |                            |
| PV2-3.1  | Identifier            | 242383002                              | Value-Test Case Fixed List |
| PV2-3.2  | Text                  | Accidental exposure to carbon monoxide | Presence-Test Case Proper  |
| PV2-3.3  | Name of Coding System | SCT                                    | Value-Test Case Fixed      |

**OBX[\*]**

**OBX : Observation/Result**

| Location | Data Element                    | Data                | Categorization             |
|----------|---------------------------------|---------------------|----------------------------|
| OBX-1    | Set ID - OBX                    | 1                   | Value-Profile Fixed        |
| OBX-2    | Value Type                      | CWE                 | Value-Test Case Fixed      |
| OBX-3    | Observation Identifier          |                     |                            |
| OBX-3.1  | Identifier                      | SS003               | Value-Test Case Fixed      |
| OBX-3.2  | Text                            | Facility/Visit Type | Presence-Test Case Proper  |
| OBX-3.3  | Name of Coding System           | PHINQUESTION        | Value-Profile Fixed        |
| OBX-5    | Observation Value               |                     |                            |
| OBX-5.1  | Identifier                      | 261QE0002X          | Value-Test Case Fixed List |
| OBX-5.2  | Text                            | Emergency Care      | Presence-Test Case Proper  |
| OBX-5.3  | Name of Coding System           | HCPTNUCC            | Value-Test Case Fixed List |
| OBX-5.4  | Alternate Identifier            |                     | Indifferent                |
| OBX-5.5  | Alternate Text                  |                     | Indifferent                |
| OBX-5.6  | Name of Alternate Coding System |                     | Indifferent                |
| OBX-5.9  | Original Text                   |                     | Indifferent                |
| OBX-6    | Units                           |                     |                            |
| OBX-6.1  | Identifier                      |                     | NonPresence                |
| OBX-6.2  | Text                            |                     | NonPresence                |
| OBX-6.3  | Name of Coding System           |                     | NonPresence                |
| OBX-11   | Observation Result Status       | F                   | Value-Test Case Fixed      |

**OBX : Observation/Result**

| Location | Data Element              | Data                         | Categorization            |
|----------|---------------------------|------------------------------|---------------------------|
| OBX-1    | Set ID - OBX              | 2                            | Value-Profile Fixed       |
| OBX-2    | Value Type                | NM                           | Value-Test Case Fixed     |
| OBX-3    | Observation Identifier    |                              |                           |
| OBX-3.1  | Identifier                | 21612-7                      | Value-Profile Fixed       |
| OBX-3.2  | Text                      | Age at Time Patient Reported | Presence-Test Case Proper |
| OBX-3.3  | Name of Coding System     | LN                           | Value-Profile Fixed       |
| OBX-5    | Observation Value         | 70                           | Presence-Test Case Proper |
| OBX-6    | Units                     |                              |                           |
| OBX-6.1  | Identifier                | a                            | Value-Test Case Fixed     |
| OBX-6.2  | Text                      | year                         | Presence-Test Case Proper |
| OBX-6.3  | Name of Coding System     | UCUM                         | Value-Profile Fixed       |
| OBX-11   | Observation Result Status | F                            | Value-Test Case Fixed     |

**OBX : Observation/Result**

| Location | Data Element              | Data  | Categorization            |
|----------|---------------------------|---|---------------------------|
| OBX-1    | Set ID - OBX              | 3   | Value-Profile Fixed       |
| OBX-2    | Value Type                | TX  | Value-Test Case Fixed     |
| OBX-3    | Observation Identifier    |   |                           |
| OBX-3.1  | Identifier                | 8661-1  | Value-Profile Fixed       |
| OBX-3.2  | Text                      | Chief complaint: Find: Pt: Patient: Nom: Reported | Presence-Test Case Proper |
| OBX-3.3  | Name of Coding System     | LN  | Value-Profile Fixed       |
| OBX-5    | Observation Value         | A headache, nausea, and dizziness                 | Value-Test Case Fixed     |
| OBX-6    | Units                     |   |                           |
| OBX-6.1  | Identifier                |   | Indifferent               |
| OBX-6.2  | Text                      |   | Indifferent               |
| OBX-6.3  | Name of Coding System     |   | Indifferent               |
| OBX-11   | Observation Result Status | F   | Value-Test Case Fixed     |

**OBX : Observation/Result**

| Location | Data Element              | Data    | Categorization            |
|----------|---------------------------|---------|---------------------------|
| OBX-1    | Set ID - OBX              | 4       | Value-Profile Fixed       |
| OBX-2    | Value Type                | NM      | Value-Test Case Fixed     |
| OBX-3    | Observation Identifier    |         |                           |
| OBX-3.1  | Identifier                | 8302-2  | Value-Profile Fixed       |
| OBX-3.2  | Text                      | Height  | Presence-Test Case Proper |
| OBX-3.3  | Name of Coding System     | LN      | Value-Profile Fixed       |
| OBX-5    | Observation Value         | 65      | Value-Test Case Fixed     |
| OBX-6    | Units                     |         |                           |
| OBX-6.1  | Identifier                | [in_us] | Value-Test Case Fixed     |
| OBX-6.2  | Text                      | inch    | Presence-Test Case Proper |
| OBX-6.3  | Name of Coding System     | UCUM    | Value-Profile Fixed       |
| OBX-11   | Observation Result Status | F       | Value-Test Case Fixed     |

**OBX : Observation/Result**

| Location | Data Element              | Data    | Categorization            |
|----------|---------------------------|---------|---------------------------|
| OBX-1    | Set ID - OBX              | 5       | Value-Profile Fixed       |
| OBX-2    | Value Type                | NM      | Value-Test Case Fixed     |
| OBX-3    | Observation Identifier    |         |                           |
| OBX-3.1  | Identifier                | 3141-9  | Value-Profile Fixed       |
| OBX-3.2  | Text                      | Weight  | Presence-Test Case Proper |
| OBX-3.3  | Name of Coding System     | LN      | Value-Profile Fixed       |
| OBX-5    | Observation Value         | 170     | Value-Test Case Fixed     |
| OBX-6    | Units                     |         |                           |
| OBX-6.1  | Identifier                | [lb_av] | Value-Test Case Fixed     |
| OBX-6.2  | Text                      | pound   | Presence-Test Case Proper |
| OBX-6.3  | Name of Coding System     | UCUM    | Value-Profile Fixed       |
| OBX-11   | Observation Result Status | F       | Value-Test Case Fixed     |

**OBX : Observation/Result**

| Location | Data Element                    | Data                         | Categorization            |
|----------|---------------------------------|------------------------------|---------------------------|
| OBX-1    | Set ID - OBX                    | 6                            | Value-Profile Fixed       |
| OBX-2    | Value Type                      | CWE                          | Value-Test Case Fixed     |
| OBX-3    | Observation Identifier          |                              |                           |
| OBX-3.1  | Identifier                      | 72166-2                      | Value-Test Case Fixed     |
| OBX-3.2  | Text                            | Tobacco Smoking Status       | Presence-Test Case Proper |
| OBX-3.3  | Name of Coding System           | LN                           | Value-Profile Fixed       |
| OBX-5    | Observation Value               |                              |                           |
| OBX-5.1  | Identifier                      | 428061000124105              | Value-Test Case Fixed     |
| OBX-5.2  | Text                            | Current Light tobacco smoker | Presence-Test Case Proper |
| OBX-5.3  | Name of Coding System           | SCT                          | Value-Profile Fixed       |
| OBX-5.4  | Alternate Identifier            |                              | Indifferent               |
| OBX-5.5  | Alternate Text                  |                              | Indifferent               |
| OBX-5.6  | Name of Alternate Coding System |                              | Indifferent               |
| OBX-5.9  | Original Text                   |                              | Indifferent               |
| OBX-6    | Units                           |                              |                           |
| OBX-6.1  | Identifier                      |                              | NonPresence               |
| OBX-6.2  | Text                            |                              | NonPresence               |
| OBX-6.3  | Name of Coding System           |                              | NonPresence               |
| OBX-11   | Observation Result Status       | F                            | Value-Test Case Fixed     |

## Test Data Specification

### Patient Information

| Element            | Data                                  |
|--------------------|---------------------------------------|
| Name               | Coded Pseudo-Name to ensure anonymity |
| Sex                | Male                                  |
| Race1              | White                                 |
| Race2              | American Indian or Alaska Native      |
| Race3              | Other race                            |
| Ethnic Group       | Not Hispanic or Latino                |
| City               | Oklahoma City                         |
| State              | Oklahoma                              |
| Zip Code           | 74852                                 |
| Country            | UNITED STATES                         |
| County/Parish Code | 40125                                 |

### Visit Information

| Element                   | Data                                   |
|---------------------------|--|
| Admit or Encounter Reason | Accidental exposure to carbon monoxide |
| Admit Date and Time       | 02/01/2010 7:30 AM                     |
| Patient Class             | Emergency                              |
| Diagnosis Type            |  |

## Observations[\*]

### Observation Results Information

| Element                    | Data  |
|----------------------------|---|
| Observation Identifier     | Facility / Visit Type                                       |
| Observation Value          | Emergency Care  |
| Units                      |   |
| Observation Results Status | Final results; Can only be changed with a corrected result. |

### Observation Results Information

| Element                    | Data  |
|----------------------------|---|
| Observation Identifier     | Age Time Patient Reported                                   |
| Observation Value          | 70  |
| Units                      | year  |
| Observation Results Status | Final results; Can only be changed with a corrected result. |

### Observation Results Information

| Element                    | Data  |
|----------------------------|---|
| Observation Identifier     | Chief complaint:Find:Pt:Patient:Nom:Reported                |
| Observation Value          | A headache, nausea, and dizziness                           |
| Units                      |   |
| Observation Results Status | Final results; Can only be changed with a corrected result. |

### Observation Results Information

| Element                    | Data  |
|----------------------------|---|
| Observation Identifier     | Height  |
| Observation Value          | 65  |
| Units                      | inch  |
| Observation Results Status | Final results; Can only be changed with a corrected result. |

### Observation Results Information

| Element                    | Data  |
|----------------------------|---|
| Observation Identifier     | Weight  |
| Observation Value          | 170   |
| Units                      | pound   |
| Observation Results Status | Final results; Can only be changed with a corrected result. |

### Observation Results Information

| Element                    | Data  |
|----------------------------|---|
| Observation Identifier     | Tobacco Smoking Status                                      |
| Observation Value          | Current Light tobacco smoker                                |
| Units                      |   |
| Observation Results Status | Final results; Can only be changed with a corrected result. |

## 4. Inpatient Visit

Patient is admitted and discharged from hospital.

### Test Story

|                     |
|---------------------|
| Description         |
| null                |
| Comments            |
| null                |
| Pre-condition       |
| null                |
| Post-Condition      |
| null                |
| Test Objectives     |
| null                |
| Evaluation Criteria |
| null                |
| Notes               |
| null                |

## 4.1. SS-IP-4\_Inpatient\_Visit\_Surgery

Patient has cardiac surgery

### Test Story

#### Description

Syndromic surveillance is public health surveillance that emphasizes the use of near "real-time" health data and statistical tools for disease or hazardous event detection, situation awareness for mass gatherings and public health emergencies, and ad hoc and population health trend analyses. For syndromic surveillance purposes, required data on all clinical encounters must be sent to the jurisdictional public health agency within 24 hours of the any given encounter, and in accordance with local or state laws and practices.

The IP Visit-Cardiac Surgery Test Case provides an example of an inpatient surgical visit for a patient with multiple diagnoses. In this scenario, syndromic surveillance data are sent to a state public health agency in accordance with guidelines recommended by the International Society for Disease Surveillance (i.e., once following admission and once following discharge).

In this test case, a middle aged man is admitted for a pre-scheduled surgical removal of a coronary artery obstruction and insertion of stents, spends one night in the hospital for observation, and is discharged home.

This test case involves 2 steps: an admission message (ADT^A01); and a discharge message (ADT^A03).

#### Comments

No Comments

#### Pre-condition

No PreCondition

#### Post-Condition

No PostCondition

#### Test Objectives

No Test Objectives

#### Evaluation Criteria

No evaluation criteria

#### Notes

No Note



### 4.1.1. SS-IP-4.1\_Admission\_A01

Patient Admitted to Hospital for cardiac surgery

#### Test Story

##### Description

On August 17, 2015 at 7:00 AM, a 51-year old male arrives at Mountainview General Hospital for a pre-scheduled surgical removal of a coronary artery obstruction and insertion of stents. A clerical assistant registers the patient for admission. He records the patient's name, date of birth, race, ethnicity, residence, and insurance information. At 7:30 AM the patient is escorted to a pre-operation room where a nurse captures the patient's health history, which includes chest pain, inputs the reason for visit as I25.110 (Atherosclerotic heart disease of native coronary artery with unstable angina pectoris), and inputs angina pectoris for the patient's diagnosis (I20.9). The patient is then prepared for the procedure, and at 8:30 AM the patient has the procedure. It occurs without incident, and the patient goes to post-operation recovery unit to wake from anesthesia, and receive a post-op examination. At 2:00 PM the patient, who is in good condition, is transported to a cardiac unit for overnight observation. Mountainview General Hospital reports inpatient syndromic surveillance data to the state health department (SHD) for all new patient admissions once per day. At 1:00 AM on August 18, 2015, the hospital's electronic health record module for syndromic surveillance data assembles and transmits an ADT^A01 Admission message about this encounter to SHD.

##### Comments

This Test Case provides an example of an inpatient visit where syndromic surveillance data are sent to a public health agency in accordance with [guidelines recommended by the International Society for Disease Surveillance](#). The dates and times in this test case illustrate the sequence of clinical and messaging events. Since the exact dates and times are not reproducible when modeling the test case with EHR technology, only date and time format will be validated within tester submitted test data.

##### Pre-condition

No PreCondition

##### Post-Condition

No PostCondition

##### Test Objectives

This test step examines a Health IT Module's ability to create ADT^A01 Admission message within PHIN Syndromic Surveillance Messaging Guide's conformance requirements.

##### Evaluation Criteria

Message Validation Report

##### Notes

Per ONC, for certification testing HIT developers must demonstrate that their system supports either the ICD-10 CM or SNOMED CT value set and are no longer required to demonstrate support for the ICD-9 CM value set (this policy is not conformant to the PHIN Syndromic Surveillance Messaging Guide, Rel2.0, April 2015).

ICD-10 CM codes are provided in the test data for coding the admit/encounter reason and

working diagnosis. If the HIT developer uses different but equivalent ICD-10 CM codes than the ones provided or equivalent SNOMED CT codes, the Tester may ignore errors generated by the Test Tool related to incorrect code/name of coding system when the ICD-10 CM or SNOMED CT code data used in the message are determined via visual inspection to be valid data.

The ICD-10 CM codes are acceptable with or without decimals.

Visit Number ID (PV1-19.1) must be populated with the same value for all messages included in this Test Case to reflect the requirement in real-world installations. Test Tool does not automatically test for this requirement, so Testers must manually inspect the messages to verify that PV1-19.1 is the same for all Test Step messages for a given Test Case.

## Message Contents

### MSH : Message Header

| Location | Data Element                    | Data                     | Categorization               |
|----------|---------------------------------|--------------------------|------------------------------|
| MSH-1    | Field Separator                 |                          | Value-Profile Fixed          |
| MSH-2    | Encoding Characters             | ^~\&                     | Value-Profile Fixed          |
| MSH-4    | Sending Facility                |                          |                              |
| MSH-4.1  | Namespace ID                    | MountainviewGeneral      | Presence-Configuration       |
| MSH-4.2  | Universal ID                    | 1231231236               | Presence-Configuration       |
| MSH-4.3  | Universal ID Type               | NPI                      | Presence-Configuration       |
| MSH-7    | Date/Time Of Message            |                          |                              |
| MSH-7.1  | Time                            | 201508180100             | Presence-System Generated    |
| MSH-9    | Message Type                    |                          |                              |
| MSH-9.1  | Message Code                    | ADT                      | Value-Profile Fixed          |
| MSH-9.2  | Trigger Event                   | A01                      | Value-Profile Fixed          |
| MSH-9.3  | Message Structure               | ADT_A01                  | Value-Profile Fixed          |
| MSH-10   | Message Control ID              | NIST-SS-003.41           | Presence-System Generated    |
| MSH-11   | Processing ID                   |                          |                              |
| MSH-11.1 | Processing ID                   | P                        | Presence-Content Indifferent |
| MSH-12   | Version ID                      |                          |                              |
| MSH-12.1 | Version ID                      | 2.5.1                    | Value-Profile Fixed          |
| MSH-15   | Accept Acknowledgment Type      | AL                       | Value-Profile Fixed          |
| MSH-16   | Application Acknowledgment Type |                          | Indifferent                  |
| MSH-21   | Message Profile Identifier      |                          |                              |
| MSH-21.1 | Entity Identifier               | PH_SS-Ack                | Value-Profile Fixed          |
| MSH-21.2 | Namespace ID                    | SS Sender                | Value-Profile Fixed          |
| MSH-21.3 | Universal ID                    | 2.16.840.1.114222.4.10.3 | Value-Profile Fixed          |
| MSH-21.4 | Universal ID Type               | ISO                      | Value-Profile Fixed          |

### EVN : Event Type

| Location | Data Element       | Data                | Categorization            |
|----------|--------------------|---------------------|---------------------------|
| EVN-2    | Recorded Date/Time |                     |                           |
| EVN-2.1  | Time               | 201508180100        | Presence-System Generated |
| EVN-7    | Event Facility     |                     |                           |
| EVN-7.1  | Namespace ID       | MountainviewGeneral | Presence-Configuration    |
| EVN-7.2  | Universal ID       | 1231231236          | Presence-Configuration    |
| EVN-7.3  | Universal ID Type  | NPI                 | Presence-Configuration    |

**PID : Patient Identification**

| Location   | Data Element            | Data                | Categorization               |
|------------|-------------------------|---------------------|------------------------------|
| PID-1      | Set ID - PID            | 1                   | Value-Profile Fixed          |
| PID-3      | Patient Identifier List |                     |                              |
| PID-3.1    | ID Number               | 3333                | Presence-Content Indifferent |
| PID-3.4    | Assigning Authority     |                     |                              |
| PID-3.4.1  | Namespace ID            | MountainviewGeneral | Presence-Content Indifferent |
| PID-3.4.2  | Universal ID            | 1231231236          | Presence-Content Indifferent |
| PID-3.4.3  | Universal ID Type       | NPI                 | Presence-Configuration       |
| PID-5[1]   | Patient Name            |                     |                              |
| PID-5[1].7 | Name Type Code          |                     | NonPresence                  |
| PID-5[2]   | Patient Name            |                     |                              |
| PID-5[2].7 | Name Type Code          | S                   | Value-Test Case Fixed        |
| PID-8      | Administrative Sex      | M                   | Value-Test Case Fixed        |
| PID-10     | Race                    |                     |                              |
| PID-10.1   | Identifier              | 2106-3              | Value-Test Case Fixed        |
| PID-10.2   | Text                    | White               | Presence-Test Case Proper    |
| PID-10.3   | Name of Coding System   | CDCREC              | Value-Profile Fixed          |
| PID-11     | Patient Address         |                     |                              |
| PID-11.3   | City                    | Columbus            | Presence-Content Indifferent |
| PID-11.4   | State or Province       | 39                  | Presence-Content Indifferent |
| PID-11.5   | Zip or Postal Code      | 43058               | Presence-Content Indifferent |
| PID-11.6   | Country                 | USA                 | Presence-Content Indifferent |
| PID-11.9   | County/Parish Code      | 39049               | Presence-Content Indifferent |
| PID-22     | Ethnic Group            |                     |                              |
| PID-22.1   | Identifier              | 2135-2              | Value-Test Case Fixed        |
| PID-22.2   | Text                    | Hispanic or Latino  | Presence-Test Case Proper    |
| PID-22.3   | Name of Coding System   | CDCREC              | Value-Profile Fixed          |

**PV1 : Patient Visit**

| Location   | Data Element        | Data                | Categorization               |
|------------|---------------------|---------------------|------------------------------|
| PV1-1      | Set ID - PV1        | 1                   | Value-Profile Fixed          |
| PV1-2      | Patient Class       | I                   | Value-Test Case Fixed        |
| PV1-19     | Visit Number        |                     |                              |
| PV1-19.1   | ID Number           | 3333_001            | Presence-Content Indifferent |
| PV1-19.4   | Assigning Authority |                     |                              |
| PV1-19.4.1 | Namespace ID        | MountainviewGeneral | Presence-Content Indifferent |
| PV1-19.4.2 | Universal ID        | 1231231236          | Presence-Content Indifferent |
| PV1-19.4.3 | Universal ID Type   | NPI                 | Presence-Configuration       |
| PV1-44     | Admit Date/Time     |                     |                              |
| PV1-44.1   | Time                | 201508170700        | Presence-Content Indifferent |

**PV2 : Patient Visit - Additional Information**

| Location | Data Element          | Data  | Categorization             |
|----------|-----------------------|---|----------------------------|
| PV2-3    | Admit Reason          |   |                            |
| PV2-3.1  | Identifier            | I25110  | Value-Test Case Fixed List |
| PV2-3.2  | Text                  | Atherosclerotic heart disease of native coronary artery with unstable angina pectoris | Presence-Test Case Proper  |
| PV2-3.3  | Name of Coding System | I10C  | Value-Test Case Fixed      |

## OBX[\*]

## OBX : Observation/Result

| Location | Data Element                    | Data                       | Categorization            |
|----------|---------------------------------|----------------------------|---------------------------|
| OBX-1    | Set ID - OBX                    | 1                          | Value-Profile Fixed       |
| OBX-2    | Value Type                      | CWE                        | Value-Test Case Fixed     |
| OBX-3    | Observation Identifier          |                            |                           |
| OBX-3.1  | Identifier                      | SS003                      | Value-Test Case Fixed     |
| OBX-3.2  | Text                            | Facility/Visit Type        | Presence-Test Case Proper |
| OBX-3.3  | Name of Coding System           | PHINQUESTION               | Value-Profile Fixed       |
| OBX-5    | Observation Value               |                            |                           |
| OBX-5.1  | Identifier                      | 1021-5                     | Value-Test Case Fixed     |
| OBX-5.2  | Text                            | Inpatient practice setting | Presence-Test Case Proper |
| OBX-5.3  | Name of Coding System           | HSLOC                      | Value-Profile Fixed       |
| OBX-5.4  | Alternate Identifier            |                            |                           |
| OBX-5.5  | Alternate Text                  |                            |                           |
| OBX-5.6  | Name of Alternate Coding System |                            |                           |
| OBX-5.9  | Original Text                   |                            |                           |
| OBX-6    | Units                           |                            |                           |
| OBX-6.1  | Identifier                      |                            | NonPresence               |
| OBX-6.2  | Text                            |                            | NonPresence               |
| OBX-6.3  | Name of Coding System           |                            | NonPresence               |
| OBX-11   | Observation Result Status       | F                          | Value-Test Case Fixed     |

## OBX : Observation/Result

| Location | Data Element                    | Data                               | Categorization            |
|----------|---------------------------------|------------------------------------|---------------------------|
| OBX-1    | Set ID - OBX                    | 2                                  | Value-Profile Fixed       |
| OBX-2    | Value Type                      | CWE                                | Value-Test Case Fixed     |
| OBX-3    | Observation Identifier          |                                    |                           |
| OBX-3.1  | Identifier                      | 56816-2                            | Value-Profile Fixed       |
| OBX-3.2  | Text                            | PATIENT LOCATION                   | Presence-Test Case Proper |
| OBX-3.3  | Name of Coding System           | LN                                 | Value-Profile Fixed       |
| OBX-5    | Observation Value               |                                    |                           |
| OBX-5.1  | Identifier                      | 1028-0                             | Value-Test Case Fixed     |
| OBX-5.2  | Text                            | Medical cardiac critical care unit | Presence-Test Case Proper |
| OBX-5.3  | Name of Coding System           | HSLOC                              | Value-Profile Fixed       |
| OBX-5.4  | Alternate Identifier            |                                    | Indifferent               |
| OBX-5.5  | Alternate Text                  |                                    | Indifferent               |
| OBX-5.6  | Name of Alternate Coding System |                                    | Indifferent               |
| OBX-5.9  | Original Text                   |                                    | Indifferent               |
| OBX-6    | Units                           |                                    |                           |
| OBX-6.1  | Identifier                      |                                    | NonPresence               |
| OBX-6.2  | Text                            |                                    | NonPresence               |
| OBX-6.3  | Name of Coding System           |                                    | NonPresence               |
| OBX-11   | Observation Result Status       | F                                  | Value-Test Case Fixed     |

**OBX : Observation/Result**

| Location | Data Element              | Data                         | Categorization            |
|----------|---------------------------|------------------------------|---------------------------|
| OBX-1    | Set ID - OBX              | 3                            | Value-Profile Fixed       |
| OBX-2    | Value Type                | NM                           | Value-Test Case Fixed     |
| OBX-3    | Observation Identifier    |                              |                           |
| OBX-3.1  | Identifier                | 21612-7                      | Value-Profile Fixed       |
| OBX-3.2  | Text                      | Age at Time Patient Reported | Presence-Test Case Proper |
| OBX-3.3  | Name of Coding System     | LN                           | Value-Profile Fixed       |
| OBX-5    | Observation Value         | 51                           | Value-Test Case Fixed     |
| OBX-6    | Units                     |                              |                           |
| OBX-6.1  | Identifier                | a                            | Value-Test Case Fixed     |
| OBX-6.2  | Text                      | year                         | Presence-Test Case Proper |
| OBX-6.3  | Name of Coding System     | UCUM                         | Value-Profile Fixed       |
| OBX-11   | Observation Result Status | F                            | Value-Test Case Fixed     |

**OBX : Observation/Result**

| Location | Data Element              | Data    | Categorization            |
|----------|---------------------------|---------|---------------------------|
| OBX-1    | Set ID - OBX              | 4       | Value-Profile Fixed       |
| OBX-2    | Value Type                | NM      | Value-Test Case Fixed     |
| OBX-3    | Observation Identifier    |         |                           |
| OBX-3.1  | Identifier                | 8302-2  | Value-Profile Fixed       |
| OBX-3.2  | Text                      | Height  | Presence-Test Case Proper |
| OBX-3.3  | Name of Coding System     | LN      | Value-Profile Fixed       |
| OBX-5    | Observation Value         | 72      | Value-Test Case Fixed     |
| OBX-6    | Units                     |         |                           |
| OBX-6.1  | Identifier                | [in_us] | Value-Test Case Fixed     |
| OBX-6.2  | Text                      | inch    | Presence-Test Case Proper |
| OBX-6.3  | Name of Coding System     | UCUM    | Value-Profile Fixed       |
| OBX-11   | Observation Result Status | F       | Value-Test Case Fixed     |

**OBX : Observation/Result**

| Location | Data Element              | Data    | Categorization            |
|----------|---------------------------|---------|---------------------------|
| OBX-1    | Set ID - OBX              | 5       | Value-Profile Fixed       |
| OBX-2    | Value Type                | NM      | Value-Test Case Fixed     |
| OBX-3    | Observation Identifier    |         |                           |
| OBX-3.1  | Identifier                | 3141-9  | Value-Profile Fixed       |
| OBX-3.2  | Text                      | Weight  | Presence-Test Case Proper |
| OBX-3.3  | Name of Coding System     | LN      | Value-Profile Fixed       |
| OBX-5    | Observation Value         | 235     | Value-Test Case Fixed     |
| OBX-6    | Units                     |         |                           |
| OBX-6.1  | Identifier                | [lb_av] | Value-Test Case Fixed     |
| OBX-6.2  | Text                      | pound   | Presence-Test Case Proper |
| OBX-6.3  | Name of Coding System     | UCUM    | Value-Profile Fixed       |
| OBX-11   | Observation Result Status | F       | Value-Test Case Fixed     |

**OBX : Observation/Result**

| Location | Data Element                    | Data                         | Categorization            |
|----------|---------------------------------|------------------------------|---------------------------|
| OBX-1    | Set ID - OBX                    | 6                            | Value-Profile Fixed       |
| OBX-2    | Value Type                      | CWE                          | Value-Test Case Fixed     |
| OBX-3    | Observation Identifier          |                              |                           |
| OBX-3.1  | Identifier                      | 72166-2                      | Value-Test Case Fixed     |
| OBX-3.2  | Text                            | Tobacco Smoking Status       | Presence-Test Case Proper |
| OBX-3.3  | Name of Coding System           | LN                           | Value-Profile Fixed       |
| OBX-5    | Observation Value               |                              |                           |
| OBX-5.1  | Identifier                      | 428061000124105              | Value-Test Case Fixed     |
| OBX-5.2  | Text                            | Current Light tobacco smoker | Presence-Test Case Proper |
| OBX-5.3  | Name of Coding System           | SCT                          | Value-Profile Fixed       |
| OBX-5.4  | Alternate Identifier            |                              | Indifferent               |
| OBX-5.5  | Alternate Text                  |                              | Indifferent               |
| OBX-5.6  | Name of Alternate Coding System |                              | Indifferent               |
| OBX-5.9  | Original Text                   |                              | Indifferent               |
| OBX-6    | Units                           |                              |                           |
| OBX-6.1  | Identifier                      |                              | NonPresence               |
| OBX-6.2  | Text                            |                              | NonPresence               |
| OBX-6.3  | Name of Coding System           |                              | NonPresence               |
| OBX-11   | Observation Result Status       | F                            | Value-Test Case Fixed     |

**DG1 : Diagnosis**

| Location | Data Element          | Data                         | Categorization             |
|----------|-----------------------|------------------------------|----------------------------|
| DG1-1    | Set ID - DG1          | 1                            | Value-Profile Fixed        |
| DG1-3    | Diagnosis Code - DG1  |                              |                            |
| DG1-3.1  | Identifier            | I209                         | Value-Test Case Fixed List |
| DG1-3.2  | Text                  | Angina pectoris, unspecified | Presence-Test Case Proper  |
| DG1-3.3  | Name of Coding System | I10C                         | Value-Test Case Fixed      |
| DG1-6    | Diagnosis Type        | W                            | Value-Test Case Fixed      |

## Test Data Specification

**Patient Information**

| Element            | Data                                  |
|--------------------|---------------------------------------|
| Name               | Coded Pseudo-Name to ensure anonymity |
| Sex                | Male                                  |
| Race               | White                                 |
| Ethnic Group       | Hispanic or Latino                    |
| City               | Columbus                              |
| State              | Ohio                                  |
| Zip Code           | 43058                                 |
| Country            | UNITED STATES                         |
| County/Parish Code | 39049                                 |

## Visit Information

| Element                   | Data  |
|---------------------------|---|
| Admit or Encounter Reason | Atherosclerotic heart disease of native coronary artery with unstable angina pectoris |
| Admit Date and Time       | 08/17/2015 7:00 AM  |
| Patient Class             | Inpatient   |
| Diagnosis Type            | Working   |
| Diagnosis                 | Angina pectoris, unspecified  |

## Observations[\*]

### Observation Results Information

| Element                    | Data  |
|----------------------------|---|
| Observation Identifier     | Facility / Visit Type                                       |
| Observation Value          | Inpatient practice setting                                  |
| Units                      |   |
| Observation Results Status | Final results; Can only be changed with a corrected result. |

### Observation Results Information

| Element                    | Data  |
|----------------------------|---|
| Observation Identifier     | Patient Location/ Hospital Unit                             |
| Observation Value          | Medical cardiac critical care unit                          |
| Units                      |   |
| Observation Results Status | Final results; Can only be changed with a corrected result. |

### Observation Results Information

| Element                    | Data  |
|----------------------------|---|
| Observation Identifier     | Age Time Patient Reported                                   |
| Observation Value          | 51  |
| Units                      | year  |
| Observation Results Status | Final results; Can only be changed with a corrected result. |

### Observation Results Information

| Element                    | Data  |
|----------------------------|---|
| Observation Identifier     | Height  |
| Observation Value          | 72  |
| Units                      | inch  |
| Observation Results Status | Final results; Can only be changed with a corrected result. |

### Observation Results Information

| Element                    | Data  |
|----------------------------|---|
| Observation Identifier     | Weight  |
| Observation Value          | 235   |
| Units                      | pound   |
| Observation Results Status | Final results; Can only be changed with a corrected result. |

### Observation Results Information

| Element                    | Data  |
|----------------------------|---|
| Observation Identifier     | Tobacco Smoking Status                                      |
| Observation Value          | Current Light tobacco smoker                                |
| Units                      |   |
| Observation Results Status | Final results; Can only be changed with a corrected result. |



## 4.1.2. SS-IP-4.2\_Discharge\_A03

Patient Discharged from Hospital to Home

### Test Story

#### Description

At 9:00 AM the next day, August 18, 2015, the patient is visited by the surgeon and an attending physician who perform a physical to check for signs and symptoms of any post-operation complications. The patient reports that he is not experiencing any chest pain. The physicians both observe that the patient has signs of cardiac arrhythmia (I49.9), but conclude that he is otherwise in good condition. They clear the patient for discharge. At 12:00 PM the patient goes home.

Mountainview General Hospital reports inpatient syndromic surveillance data to the state health department (SHD) for all new patient discharges once per day. At 1:00 AM on August 19, 2015, the hospital's electronic health record module for syndromic surveillance data assembles and transmits an ADT^A03 Discharge message about this encounter to SHD.

#### Comments

This Test Case provides an example of an inpatient visit where syndromic surveillance data are sent to a public health agency in accordance with [guidelines recommended by the International Society for Disease Surveillance](#). The dates and times in this test case illustrate the sequence of clinical and messaging events. Since the exact dates and times are not reproducible when modeling the test case with EHR technology, only date and time format will be validated within tester submitted test data.

#### Pre-condition

A01-Admission message is sent before A03-Discharge message.

#### Post-Condition

No PostCondition

#### Test Objectives

This test step examines a Health IT Module's ability to create ADT^A03 Discharge message within PHIN Messaging Guide's conformance requirements.

#### Evaluation Criteria

Message Validation Report

#### Notes

Per ONC, for certification testing HIT developers must demonstrate that their system supports either the ICD-10 CM or SNOMED CT value set and are no longer required to demonstrate support for the ICD-9 CM value set (this policy is not conformant to the PHIN Syndromic Surveillance Messaging Guide, Rel2.0, April 2015).

ICD-10 CM codes are provided in the test data for coding the admit/encounter reason and final diagnosis. If the HIT developer uses different but equivalent ICD-10 CM codes than the ones provided or equivalent SNOMED CT codes, the Tester may ignore errors generated by the Test Tool related to incorrect code/name of coding system when the ICD-10 CM or SNOMED CT code

data used in the message are determined via visual inspection to be valid data.

The ICD-10 CM codes are acceptable with or without decimals.

Visit Number ID (PV1-19.1) must be populated with the same value for all messages included in this Test Case to reflect the requirement in real-world installations. Test Tool does not automatically test for this requirement, so Testers must manually inspect the messages to verify that PV1-19.1 is the same for all Test Step messages for a given Test Case.

## Message Contents

MSH : Message Header

| Location | Data Element                    | Data                     | Categorization               |
|----------|---------------------------------|--------------------------|------------------------------|
| MSH-1    | Field Separator                 |                          | Value-Profile Fixed          |
| MSH-2    | Encoding Characters             | ^~\&                     | Value-Profile Fixed          |
| MSH-4    | Sending Facility                |                          |                              |
| MSH-4.1  | Namespace ID                    | MountainviewGeneral      | Presence-Configuration       |
| MSH-4.2  | Universal ID                    | 1231231236               | Presence-Configuration       |
| MSH-4.3  | Universal ID Type               | NPI                      | Presence-Configuration       |
| MSH-7    | Date/Time Of Message            |                          |                              |
| MSH-7.1  | Time                            | 201508190100             | Presence-System Generated    |
| MSH-9    | Message Type                    |                          |                              |
| MSH-9.1  | Message Code                    | ADT                      | Value-Profile Fixed          |
| MSH-9.2  | Trigger Event                   | A03                      | Value-Profile Fixed          |
| MSH-9.3  | Message Structure               | ADT_A03                  | Value-Profile Fixed          |
| MSH-10   | Message Control ID              | NIST-SS-003.31           | Presence-System Generated    |
| MSH-11   | Processing ID                   |                          |                              |
| MSH-11.1 | Processing ID                   | P                        | Presence-Content Indifferent |
| MSH-12   | Version ID                      |                          |                              |
| MSH-12.1 | Version ID                      | 2.5.1                    | Value-Profile Fixed          |
| MSH-15   | Accept Acknowledgment Type      | AL                       | Value-Profile Fixed          |
| MSH-16   | Application Acknowledgment Type |                          | Indifferent                  |
| MSH-21   | Message Profile Identifier      |                          |                              |
| MSH-21.1 | Entity Identifier               | PH_SS-Ack                | Value-Profile Fixed          |
| MSH-21.2 | Namespace ID                    | SS Sender                | Value-Profile Fixed          |
| MSH-21.3 | Universal ID                    | 2.16.840.1.114222.4.10.3 | Value-Profile Fixed          |
| MSH-21.4 | Universal ID Type               | ISO                      | Value-Profile Fixed          |

EVN : Event Type

| Location | Data Element       | Data                | Categorization               |
|----------|--------------------|---------------------|------------------------------|
| EVN-2    | Recorded Date/Time |                     |                              |
| EVN-2.1  | Time               | 201508180100        | Presence-System Generated    |
| EVN-7    | Event Facility     |                     |                              |
| EVN-7.1  | Namespace ID       | MountainviewGeneral | Presence-Content Indifferent |
| EVN-7.2  | Universal ID       | 1231231236          | Presence-Content Indifferent |
| EVN-7.3  | Universal ID Type  | NPI                 | Presence-Configuration       |

**PID : Patient Identification**

| Location   | Data Element            | Data                | Categorization               |
|------------|-------------------------|---------------------|------------------------------|
| PID-1      | Set ID - PID            | 1                   | Value-Profile Fixed          |
| PID-3      | Patient Identifier List |                     |                              |
| PID-3.1    | ID Number               | 3333                | Presence-Content Indifferent |
| PID-3.4    | Assigning Authority     |                     |                              |
| PID-3.4.1  | Namespace ID            | MountainviewGeneral | Presence-Content Indifferent |
| PID-3.4.2  | Universal ID            | 1231231236          | Presence-Content Indifferent |
| PID-3.4.3  | Universal ID Type       | NPI                 | Presence-Configuration       |
| PID-5[1]   | Patient Name            |                     |                              |
| PID-5[1].7 | Name Type Code          |                     | NonPresence                  |
| PID-5[2]   | Patient Name            |                     |                              |
| PID-5[2].7 | Name Type Code          | S                   | Value-Test Case Fixed        |
| PID-8      | Administrative Sex      | M                   | Value-Test Case Fixed        |
| PID-10     | Race                    |                     |                              |
| PID-10.1   | Identifier              | 2106-3              | Value-Test Case Fixed        |
| PID-10.2   | Text                    | White               | Presence-Test Case Proper    |
| PID-10.3   | Name of Coding System   | CDCREC              | Value-Profile Fixed          |
| PID-11     | Patient Address         |                     |                              |
| PID-11.3   | City                    | Columbus            | Presence-Content Indifferent |
| PID-11.4   | State or Province       | 39                  | Presence-Content Indifferent |
| PID-11.5   | Zip or Postal Code      | 43058               | Presence-Content Indifferent |
| PID-11.6   | Country                 | USA                 | Presence-Content Indifferent |
| PID-11.9   | County/Parish Code      | 39049               | Presence-Content Indifferent |
| PID-22     | Ethnic Group            |                     |                              |
| PID-22.1   | Identifier              | 2135-2              | Value-Test Case Fixed        |
| PID-22.2   | Text                    | Hispanic or Latino  | Presence-Test Case Proper    |
| PID-22.3   | Name of Coding System   | CDCREC              | Value-Profile Fixed          |

**PV1 : Patient Visit**

| Location   | Data Element          | Data                | Categorization               |
|------------|-----------------------|---------------------|------------------------------|
| PV1-1      | Set ID - PV1          | 1                   | Value-Profile Fixed          |
| PV1-2      | Patient Class         | I                   | Value-Test Case Fixed        |
| PV1-19     | Visit Number          |                     |                              |
| PV1-19.1   | ID Number             | 3333_001            | Presence-Content Indifferent |
| PV1-19.4   | Assigning Authority   |                     |                              |
| PV1-19.4.1 | Namespace ID          | MountainviewGeneral | Presence-Content Indifferent |
| PV1-19.4.2 | Universal ID          | 1231231236          | Presence-Content Indifferent |
| PV1-19.4.3 | Universal ID Type     | NPI                 | Presence-Configuration       |
| PV1-36     | Discharge Disposition | 01                  | Value-Test Case Fixed        |
| PV1-44     | Admit Date/Time       |                     |                              |
| PV1-44.1   | Time                  | 201508170700        | Presence-Content Indifferent |
| PV1-45     | Discharge Date/Time   |                     |                              |
| PV1-45.1   | Time                  | 201508181200        | Presence-Content Indifferent |

**PV2 : Patient Visit - Additional Information**

| Location | Data Element          | Data  | Categorization             |
|----------|-----------------------|---|----------------------------|
| PV2-3    | Admit Reason          |   |                            |
| PV2-3.1  | Identifier            | I25110  | Value-Test Case Fixed List |
| PV2-3.2  | Text                  | Atherosclerotic heart disease of native coronary artery with unstable angina pectoris | Presence-Test Case Proper  |
| PV2-3.3  | Name of Coding System | I10C  | Value-Test Case Fixed      |

**DG1 : Diagnosis**

| Location | Data Element          | Data                            | Categorization             |
|----------|-----------------------|---------------------------------|----------------------------|
| DG1-1    | Set ID - DG1          | 1                               | Value-Profile Fixed        |
| DG1-3    | Diagnosis Code - DG1  |                                 |                            |
| DG1-3.1  | Identifier            | I499                            | Value-Test Case Fixed List |
| DG1-3.2  | Text                  | Cardiac arrhythmia, unspecified | Presence-Test Case Proper  |
| DG1-3.3  | Name of Coding System | I10C                            | Value-Test Case Fixed      |
| DG1-6    | Diagnosis Type        | F                               | Value-Test Case Fixed      |

OBX[\*]

OBX : Observation/Result

| Location | Data Element                    | Data                       | Categorization            |
|----------|---------------------------------|----------------------------|---------------------------|
| OBX-1    | Set ID - OBX                    | 1                          | Value-Profile Fixed       |
| OBX-2    | Value Type                      | CWE                        | Value-Test Case Fixed     |
| OBX-3    | Observation Identifier          |                            |                           |
| OBX-3.1  | Identifier                      | SS003                      | Value-Test Case Fixed     |
| OBX-3.2  | Text                            | Facility/Visit Type        | Presence-Test Case Proper |
| OBX-3.3  | Name of Coding System           | PHINQUESTION               | Value-Profile Fixed       |
| OBX-5    | Observation Value               |                            |                           |
| OBX-5.1  | Identifier                      | 1021-5                     | Value-Test Case Fixed     |
| OBX-5.2  | Text                            | Inpatient practice setting | Presence-Test Case Proper |
| OBX-5.3  | Name of Coding System           | HSLOC                      | Value-Profile Fixed       |
| OBX-5.4  | Alternate Identifier            |                            | Indifferent               |
| OBX-5.5  | Alternate Text                  |                            | Indifferent               |
| OBX-5.6  | Name of Alternate Coding System |                            | Indifferent               |
| OBX-5.9  | Original Text                   |                            | Indifferent               |
| OBX-6    | Units                           |                            |                           |
| OBX-6.1  | Identifier                      |                            | NonPresence               |
| OBX-6.2  | Text                            |                            | NonPresence               |
| OBX-6.3  | Name of Coding System           |                            | NonPresence               |
| OBX-11   | Observation Result Status       | F                          | Value-Test Case Fixed     |

OBX : Observation/Result

| Location | Data Element                    | Data                               | Categorization               |
|----------|---------------------------------|------------------------------------|------------------------------|
| OBX-1    | Set ID - OBX                    | 2                                  | Value-Profile Fixed          |
| OBX-2    | Value Type                      | CWE                                | Value-Test Case Fixed        |
| OBX-3    | Observation Identifier          |                                    |                              |
| OBX-3.1  | Identifier                      | 56816-2                            | Value-Profile Fixed          |
| OBX-3.2  | Text                            | PATIENT LOCATION                   | Presence-Content Indifferent |
| OBX-3.3  | Name of Coding System           | LN                                 | Value-Profile Fixed          |
| OBX-5    | Observation Value               |                                    |                              |
| OBX-5.1  | Identifier                      | 1028-0                             | Value-Test Case Fixed        |
| OBX-5.2  | Text                            | Medical cardiac critical care unit | Presence-Test Case Proper    |
| OBX-5.3  | Name of Coding System           | HSLOC                              | Value-Profile Fixed          |
| OBX-5.4  | Alternate Identifier            |                                    | Indifferent                  |
| OBX-5.5  | Alternate Text                  |                                    | Indifferent                  |
| OBX-5.6  | Name of Alternate Coding System |                                    | Indifferent                  |
| OBX-5.9  | Original Text                   |                                    | Indifferent                  |
| OBX-6    | Units                           |                                    |                              |
| OBX-6.1  | Identifier                      |                                    | NonPresence                  |
| OBX-6.2  | Text                            |                                    | NonPresence                  |
| OBX-6.3  | Name of Coding System           |                                    | NonPresence                  |
| OBX-11   | Observation Result Status       | F                                  | Value-Test Case Fixed        |

**OBX : Observation/Result**

| Location | Data Element              | Data                         | Categorization            |
|----------|---------------------------|------------------------------|---------------------------|
| OBX-1    | Set ID - OBX              | 3                            | Value-Profile Fixed       |
| OBX-2    | Value Type                | NM                           | Value-Test Case Fixed     |
| OBX-3    | Observation Identifier    |                              |                           |
| OBX-3.1  | Identifier                | 21612-7                      | Value-Profile Fixed       |
| OBX-3.2  | Text                      | Age at Time Patient Reported | Presence-Test Case Proper |
| OBX-3.3  | Name of Coding System     | LN                           | Value-Profile Fixed       |
| OBX-5    | Observation Value         | 51                           | Value-Test Case Fixed     |
| OBX-6    | Units                     |                              |                           |
| OBX-6.1  | Identifier                | a                            | Value-Test Case Fixed     |
| OBX-6.2  | Text                      | year                         | Presence-Test Case Proper |
| OBX-6.3  | Name of Coding System     | UCUM                         | Value-Profile Fixed       |
| OBX-11   | Observation Result Status | F                            | Value-Test Case Fixed     |

**OBX : Observation/Result**

| Location | Data Element              | Data    | Categorization            |
|----------|---------------------------|---------|---------------------------|
| OBX-1    | Set ID - OBX              | 4       | Value-Profile Fixed       |
| OBX-2    | Value Type                | NM      | Value-Test Case Fixed     |
| OBX-3    | Observation Identifier    |         |                           |
| OBX-3.1  | Identifier                | 8302-2  | Value-Profile Fixed       |
| OBX-3.2  | Text                      | Height  | Presence-Test Case Proper |
| OBX-3.3  | Name of Coding System     | LN      | Value-Profile Fixed       |
| OBX-5    | Observation Value         | 72      | Value-Test Case Fixed     |
| OBX-6    | Units                     |         |                           |
| OBX-6.1  | Identifier                | [in_us] | Value-Test Case Fixed     |
| OBX-6.2  | Text                      | inch    | Presence-Test Case Proper |
| OBX-6.3  | Name of Coding System     | UCUM    | Value-Profile Fixed       |
| OBX-11   | Observation Result Status | F       | Value-Test Case Fixed     |

**OBX : Observation/Result**

| Location | Data Element              | Data    | Categorization            |
|----------|---------------------------|---------|---------------------------|
| OBX-1    | Set ID - OBX              | 5       | Value-Profile Fixed       |
| OBX-2    | Value Type                | NM      | Value-Test Case Fixed     |
| OBX-3    | Observation Identifier    |         |                           |
| OBX-3.1  | Identifier                | 3141-9  | Value-Profile Fixed       |
| OBX-3.2  | Text                      | Weight  | Presence-Test Case Proper |
| OBX-3.3  | Name of Coding System     | LN      | Value-Profile Fixed       |
| OBX-5    | Observation Value         | 235     | Value-Test Case Fixed     |
| OBX-6    | Units                     |         |                           |
| OBX-6.1  | Identifier                | [lb_av] | Value-Test Case Fixed     |
| OBX-6.2  | Text                      | pound   | Presence-Test Case Proper |
| OBX-6.3  | Name of Coding System     | UCUM    | Value-Profile Fixed       |
| OBX-11   | Observation Result Status | F       | Value-Test Case Fixed     |

**OBX : Observation/Result**

| Location | Data Element                    | Data                         | Categorization            |
|----------|---------------------------------|------------------------------|---------------------------|
| OBX-1    | Set ID - OBX                    | 6                            | Value-Profile Fixed       |
| OBX-2    | Value Type                      | CWE                          | Value-Test Case Fixed     |
| OBX-3    | Observation Identifier          |                              |                           |
| OBX-3.1  | Identifier                      | 72166-2                      | Value-Test Case Fixed     |
| OBX-3.2  | Text                            | Tobacco Smoking Status       | Presence-Test Case Proper |
| OBX-3.3  | Name of Coding System           | LN                           | Value-Profile Fixed       |
| OBX-5    | Observation Value               |                              |                           |
| OBX-5.1  | Identifier                      | 428061000124105              | Value-Test Case Fixed     |
| OBX-5.2  | Text                            | Current Light tobacco smoker | Presence-Test Case Proper |
| OBX-5.3  | Name of Coding System           | SCT                          | Value-Profile Fixed       |
| OBX-5.4  | Alternate Identifier            |                              | Indifferent               |
| OBX-5.5  | Alternate Text                  |                              | Indifferent               |
| OBX-5.6  | Name of Alternate Coding System |                              | Indifferent               |
| OBX-5.9  | Original Text                   |                              | Indifferent               |
| OBX-6    | Units                           |                              |                           |
| OBX-6.1  | Identifier                      |                              | NonPresence               |
| OBX-6.2  | Text                            |                              | NonPresence               |
| OBX-6.3  | Name of Coding System           |                              | NonPresence               |
| OBX-11   | Observation Result Status       | F                            | Value-Test Case Fixed     |

## Test Data Specification

**Patient Information**

| Element                     | Data                                  |
|-----------------------------|---------------------------------------|
| Name                        | Coded Pseudo-Name to ensure anonymity |
| Sex                         | Male                                  |
| Race                        | White                                 |
| Ethnic Group                | Hispanic or Latino                    |
| City                        | Columbus                              |
| State                       | Ohio                                  |
| Zip Code                    | 43058                                 |
| Country                     | UNITED STATES                         |
| County/Parish Code          | 39049                                 |
| Patient Death Date and Time |                                       |
| Patient Death Indicator     |                                       |

## Visit Information

| Element                   | Data  |
|---------------------------|---|
| Admit or Encounter Reason | Atherosclerotic heart disease of native coronary artery with unstable angina pectoris |
| Admit Date and Time       | 08/17/2015 7:00 AM  |
| Patient Class             | Inpatient   |
| Discharge Disposition     | Discharged to home or self care (routine discharge)                                   |
| Discharge Date/Time       | 08/18/2015 12:00  |
| Diagnosis Type            | Final   |
| Diagnosis                 | Cardiac arrhythmia, unspecified   |

## Observations[\*]

### Observation Results Information

| Element                    | Data  |
|----------------------------|---|
| Observation Identifier     | Facility / Visit Type                                       |
| Observation Value          | Inpatient practice setting                                  |
| Units                      |   |
| Observation Results Status | Final results; Can only be changed with a corrected result. |

### Observation Results Information

| Element                    | Data  |
|----------------------------|---|
| Observation Identifier     | Patient Location/ Hospital Unit                             |
| Observation Value          | Medical cardiac critical care unit                          |
| Units                      |   |
| Observation Results Status | Final results; Can only be changed with a corrected result. |

### Observation Results Information

| Element                    | Data  |
|----------------------------|---|
| Observation Identifier     | Age Time Patient Reported                                   |
| Observation Value          | 51  |
| Units                      | year  |
| Observation Results Status | Final results; Can only be changed with a corrected result. |

### Observation Results Information

| Element                    | Data  |
|----------------------------|---|
| Observation Identifier     | Height  |
| Observation Value          | 72  |
| Units                      | inch  |
| Observation Results Status | Final results; Can only be changed with a corrected result. |

### Observation Results Information

| Element                    | Data  |
|----------------------------|---|
| Observation Identifier     | Weight  |
| Observation Value          | 235   |
| Units                      | pound   |
| Observation Results Status | Final results; Can only be changed with a corrected result. |

### Observation Results Information

| Element                    | Data  |
|----------------------------|---|
| Observation Identifier     | Tobacco Smoking Status                                      |
| Observation Value          | Current Light tobacco smoker                                |
| Units                      |   |
| Observation Results Status | Final results; Can only be changed with a corrected result. |