

**2015-11-02 15:03:35**

1. 1. Urgent Care Visit
  1. 1.1. TC-1-UC Visit-Influenza\_Child
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    2. 1.1.2. TS-2 Discharge-A03
2. 2. ED Visit with Mortality
  1. 2.1. TC-2 ED Visit-Patient Dies
    1. 2.1.1. TS-1 Registration-A04
    2. 2.1.2. TS-2 Update-A08
    3. 2.1.3. TS-3 Discharge-A03
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    2. 3.1.2. TS-2 Update-A08
    3. 3.1.3. TS-3 Discharge-A03
    4. 3.1.4. TS-4 Admission-A01
4. 4. Inpatient Visit
  1. 4.1. TC-4 Inpatient Visit\_Surgery
    1. 4.1.1. TS-1 Admission-A01
    2. 4.1.2. TS-2 Discharge-A03

# 1. Urgent Care Visit

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

# 1.1. TC-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 (ADTA03).

### Comments

No Comments

### Pre Condition

No PreCondition

### Post Condition

No PostCondition

### Test Objectives

No Test Objectives

### Evaluation Criteria

No evaluation criteria

### Notes for Testers

No Note



# 1.1.1. TS-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 8:35AM 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

Output an ADT A04 registration message in HL7 containing syndromic surveillance data for the patient encounter

### Evaluation Criteria

No evaluation criteria

## Notes for Testers

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), Scenario #1 specifies that "mo" for months be used in this message for the Context-based validation. ICD 9 CM diagnosis codes are acceptable with or without decimals.

## 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	BgCtyChldrnUrgntCar	
MSH-4.2	Universal ID	1231231234	
MSH-4.3	Universal ID Type	NPI	
MSH-7	Date/Time Of Message		
MSH-7.1	Time	201002201000	
MSH-9	Message Type		
MSH-9.1	Message Code	ADT	
MSH-9.2	Trigger Event	A04	
MSH-9.3	Message Structure	ADT_A01	
MSH-10	Message Control ID	NIST-SS-001.11	Presence-Configuration
MSH-11	Processing ID		
MSH-11.1	Processing ID	P	Indifferent
MSH-12	Version ID		
MSH-12.1	Version ID	2.5.1	Value-Profile Fixed
MSH-15	Accept Acknowledgment Type		Value-Profile Fixed List
MSH-16	Application Acknowledgment Type		Value-Test Case Fixed List
MSH-21	Message Profile Identifier		
MSH-21.1	Entity Identifier	PH_SS-NoAck	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	
EVN-7	Event Facility		
EVN-7.1	Namespace ID	BgCtyChldrnUrgntCar	
EVN-7.2	Universal ID	1231231234	
EVN-7.3	Universal ID Type	NPI	

## 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	Indifferent
PID-3.4	Assigning Authority		
PID-3.4.1	Namespace ID	BgCtyChldrnUrgntCar	
PID-3.4.2	Universal ID	1231231234	
PID-3.4.3	Universal ID Type	NPI	
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	
PID-8	Administrative Sex	M	Value-Test Case Fixed
PID-10[1]	Race		
PID-10[1].1	Identifier	2106-3	
PID-10[1].2	Text	White	
PID-10[1].3	Name of Coding System	CDCREC	
PID-10[1].6	Name of Alternate Coding System		
PID-10[2]	Race		
PID-10[2].1	Identifier	2028-9	
PID-10[2].2	Text	Asian	
PID-10[2].3	Name of Coding System	CDCREC	
PID-10[2].6	Name of Alternate Coding System		
PID-10[3]	Race		
PID-10[3].1	Identifier	2076-8	
PID-10[3].2	Text	Native Hawaiian or Other Pacific Islander	
PID-10[3].3	Name of Coding System	CDCREC	



PID-10[3].6	System Name of Alternate Coding System		
PID-11	Patient Address		
PID-11.3	City	Jamaica Plain	
PID-11.4	State or Province	25	
PID-11.5	Zip or Postal Code	02130	
PID-11.6	Country	USA	
PID-11.9	County/Parish Code	25025	
PID-22	Ethnic Group		
PID-22.1	Identifier	2186-5	Value-Test Case Fixed
PID-22.2	Text	Not Hispanic or Latino	Presence-Content Indifferent
PID-22.3	Name of Coding System	CDCREC	Value-Profile Fixed
PID-22.6	Name of Alternate Coding System		
PID-29	Patient Death Date and Time		
PID-29.1	Time		
PID-30	Patient Death Indicator		Value-Test Case Fixed

## PV1 : Patient Visit

Location	Data Element	Data	Categorization
PV1-1	Set ID - PV1	1	Value-Test Case Fixed
PV1-2	Patient Class	O	
PV1-19	Visit Number		
PV1-19.1	ID Number	1111_001	
PV1-19.4	Assigning Authority		
PV1-19.4.1	Namespace ID	BgCtyChldrnUrgntCar	
PV1-19.4.2	Universal ID	1231231234	
PV1-19.4.3	Universal ID Type	NPI	
PV1-44	Admit Date/Time		
PV1-44.1	Time	201002200830	

## PV2 : Patient Visit - Additional Information

Location	Data Element	Data	Categorization
PV2-3	Admit Reason		
PV2-3.1	Identifier		
PV2-3.2	Text	Fever, cough, earache	
PV2-3.3	Name of Coding System		
PV2-3.6	Name of Alternate Coding System		

## OBX[\*]

### OBX : Observation/Result

Location	Data Element	Data	Categorization
OBX-1	Set ID - OBX	1	Presence-Content Indifferent
OBX-2	Value Type	CWE	Value-Profile Fixed List
OBX-3	Observation Identifier		
OBX-3.1	Identifier	SS003	
OBX-3.2	Text		
OBX-3.3	Name of Coding System	PHINQUESTION	
OBX-3.6	Name of Alternate Coding System		
OBX-5	Observation Value		
OBX-5.1	Identifier	261QU0200X	
OBX-5.2	Text	Urgent Care	
OBX-5.3	Name of Coding System	HCPT	
OBX-5.6	Name of Alternate Coding System		
OBX-5.9	Original Text		
OBX-6	Units		
OBX-6.1	Identifier		
OBX-6.2	Text		
OBX-6.3	Name of Coding System		
OBX-6.6	Name of Alternate Coding System		
OBX-11	Observation Result Status	F	Value-Profile Fixed List

### OBX : Observation/Result

Location	Data Element	Data	Categorization
OBX-1	Set ID - OBX	2	
OBX-2	Value Type	NM	
OBX-3	Observation Identifier		
OBX-3.1	Identifier	21612-7	
OBX-3.2	Text		
OBX-3.3	Name of Coding System	LN	
OBX-3.6	Name of Alternate Coding System		
OBX-5	Observation Value	6	
OBX-6	Units		
OBX-6.1	Identifier	mo	
OBX-6.2	Text	age	
OBX-6.3	Name of Coding System	UCUM	
OBX-6.6	Name of Alternate Coding System		
OBX-11	Observation Result Status	F	

## OBX: Observation/Result

Location	Data Element	Data	Categorization
OBX-1	Set ID - OBX	3	
OBX-2	Value Type	TX	
OBX-3	Observation Identifier		
OBX-3.1	Identifier	8661-1	
OBX-3.2	Text		
OBX-3.3	Name of Coding System	LN	
OBX-3.6	Name of Alternate Coding System		
OBX-5	Observation Value	Fever,cough,earache	
OBX-6	Units		
OBX-6.1	Identifier		
OBX-6.2	Text		
OBX-6.3	Name of Coding System		
OBX-6.6	Name of Alternate Coding System		
OBX-11	Observation Result Status	F	

## OBX: Observation/Result

Location	Data Element	Data	Categorization
OBX-1	Set ID - OBX	4	
OBX-2	Value Type	NM	
OBX-3	Observation Identifier		
OBX-3.1	Identifier	8302-2	
OBX-3.2	Text		
OBX-3.3	Name of Coding System	LN	
OBX-3.6	Name of Alternate Coding System		
OBX-5	Observation Value	27	
OBX-6	Units		
OBX-6.1	Identifier	[in_us]	
OBX-6.2	Text	inch	
OBX-6.3	Name of Coding System	UCUM	
OBX-6.6	Name of Alternate Coding System		
OBX-11	Observation Result Status	F	

## OBX: Observation/Result

Location	Data Element	Data	Categorization
OBX-1	Set ID - OBX	5	
OBX-2	Value Type	NM	
OBX-3	Observation Identifier		
OBX-3.1	Identifier	3141-9	
OBX-3.2	Text		
OBX-3.3	Name of Coding System	LN	
OBX-3.6	Name of Alternate Coding System		
OBX-5	Observation Value	17	
OBX-6	Units		
OBX-6.1	Identifier	[lb_av]	
OBX-6.2	Text	pound	
OBX-6.3	Name of Coding System	UCUM	
OBX-6.6	Name of Alternate Coding System		
OBX-11	Observation Result Status	F	

## OBX: Observation/Result

Location	Data Element	Data	Categorization
OBX-1	Set ID - OBX	6	
OBX-2	Value Type	CWE	
OBX-3	Observation Identifier		
OBX-3.1	Identifier	72166-2	
OBX-3.2	Text		
OBX-3.3	Name of Coding System	LN	
OBX-3.6	Name of Alternate Coding System		
OBX-5	Observation Value		
OBX-5.1	Identifier	266919005	
OBX-5.2	Text	Never smoker	
OBX-5.3	Name of Coding System	SCT	
OBX-5.6	Name of Alternate Coding System		
OBX-5.9	Original Text		
OBX-6	Units		
OBX-6.1	Identifier		
OBX-6.2	Text		
OBX-6.3	Name of Coding System		
OBX-6.6	Name of Alternate Coding System		
OBX-11	Observation Result Status	F	

## DG1[\*]

### DG1 : Diagnosis

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

### DG1 : Diagnosis

Location	Data Element	Data	Categorization
DG1-1	Set ID - DG1	1	
DG1-3	Diagnosis Code - DG1		
DG1-3.1	Identifier	38053	
DG1-3.2	Text	Stenosis of external ear canal due to inflammation	
DG1-3.3	Name of Coding System	I9CDX	
DG1-6	Diagnosis Type	W	

## 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
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	age
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	Fever,cough,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. TS-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

Output an ADT A03 discharge message in HL7 2.5.1 containing the syndromic surveillance data for the patient encounter.

#### Evaluation Criteria

No evaluation criteria

#### Notes for Testers

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), Scenario #1 specifies that "mo" for months be used in this message for the Context-based validation. ICD 9 CM diagnosis codes are acceptable with or without decimals.

## 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	BgCtyChldrnUrgntCar	
MSH-4.2	Universal ID	1231231234	
MSH-4.3	Universal ID Type	NPI	
MSH-7	Date/Time Of Message		
MSH-7.1	Time	201002201800	Presence-Content Indifferent
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-Configuration
MSH-11	Processing ID		
MSH-11.1	Processing ID	P	
MSH-12	Version ID		
MSH-12.1	Version ID	2.5.1	Value-Profile Fixed
MSH-15	Accept Acknowledgment Type		
MSH-16	Application Acknowledgment Type		
MSH-21	Message Profile Identifier		
MSH-21.1	Entity Identifier	PH_SS-NoAck	Value-Test Case Fixed
MSH-21.2	Namespace ID	SS Sender	Value-Test Case 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	
EVN-7	Event Facility		
EVN-7.1	Namespace ID	BgCtyChldrnUrgntCar	
EVN-7.2	Universal ID	1231231234	
EVN-7.3	Universal ID Type	NPI	

## PID : Patient Identification

Location	Data Element	Data	Categorization
PID-1	Set ID - PID	1	
PID-3	Patient Identifier List		
PID-3.1	ID Number	11111	
PID-3.4	Assigning Authority		
PID-3.4.1	Namespace ID		
PID-3.4.2	Universal ID		
PID-3.4.3	Universal ID Type		
PID-5[1]	Patient Name		
PID-5[1].7	Name Type Code		
PID-5[2]	Patient Name		
PID-5[2].7	Name Type Code	S	
PID-8	Administrative Sex	M	
PID-10[1]	Race		
PID-10[1].1	Identifier	2106-3	
PID-10[1].2	Text	White	
PID-10[1].3	Name of Coding System	CDCREC	
PID-10[1].6	Name of Alternate Coding System		
PID-10[2]	Race		
PID-10[2].1	Identifier	2028-9	
PID-10[2].2	Text	Asian	
PID-10[2].3	Name of Coding System	CDCREC	
PID-10[2].6	Name of Alternate Coding System		
PID-10[3]	Race		
PID-10[3].1	Identifier	2076-8	
PID-10[3].2	Text	Native Hawaiian or Other Pacific Islander	
PID-10[3].3	Name of Coding System	CDCREC	
PID-10[3].6	Name of Alternate Coding System		

PID-11	Patient Address		
PID-11.3	City	Jamaica Plain	
PID-11.4	State or Province	25	
PID-11.5	Zip or Postal Code	02130	
PID-11.6	Country	USA	
PID-11.9	County/Parish Code	25025	
PID-22	Ethnic Group		
PID-22.1	Identifier	2186-5	
PID-22.2	Text	Not Hispanic or Latino	
PID-22.3	Name of Coding System	CDCREC	
PID-22.6	Name of Alternate Coding System		
PID-29	Patient Death Date and Time		
PID-29.1	Time		
PID-30	Patient Death Indicator		

## PV1 : Patient Visit

Location	Data Element	Data	Categorization
PV1-1	Set ID - PV1	1	
PV1-2	Patient Class	O	
PV1-19	Visit Number		
PV1-19.1	ID Number	1111_001	
PV1-19.4	Assigning Authority		
PV1-19.4.1	Namespace ID		
PV1-19.4.2	Universal ID		
PV1-19.4.3	Universal ID Type		
PV1-36	Discharge Disposition	01	
PV1-44	Admit Date/Time		
PV1-44.1	Time	201002200830	
PV1-45	Discharge Date/Time		
PV1-45.1	Time	201002201700	

## PV2 : Patient Visit - Additional Information

Location	Data Element	Data	Categorization
PV2-3	Admit Reason		
PV2-3.1	Identifier		
PV2-3.2	Text	Fever, cough, earache	
PV2-3.3	Name of Coding System		
PV2-3.6	Name of Alternate Coding System		

## DG1[\*]

### DG1 : Diagnosis

Location	Data Element	Data	Categorization
DG1-1	Set ID - DG1	1	
DG1-3	Diagnosis Code - DG1		
DG1-3.1	Identifier	4871	
DG1-3.2	Text	Influenza with other respiratory manifestations	
DG1-3.3	Name of Coding System	I9CDX	
DG1-6	Diagnosis Type	F	

### DG1 : Diagnosis

Location	Data Element	Data	Categorization
DG1-1	Set ID - DG1	2	
DG1-3	Diagnosis Code - DG1		
DG1-3.1	Identifier	38053	
DG1-3.2	Text	Stenosis of external ear canal due to inflammation	
DG1-3.3	Name of Coding System	I9CDX	
DG1-6	Diagnosis Type	F	

## OBX[\*]

### OBX: Observation/Result

Location	Data Element	Data	Categorization
OBX-1	Set ID - OBX	1	
OBX-2	Value Type	CWE	
OBX-3	Observation Identifier		
OBX-3.1	Identifier	SS003	
OBX-3.2	Text		
OBX-3.3	Name of Coding System	PHINQUESTION	
OBX-3.6	Name of Alternate Coding System		
OBX-5	Observation Value		
OBX-5.1	Identifier	261QU0200X	
OBX-5.2	Text	Urgent Care	
OBX-5.3	Name of Coding System	NUCC	
OBX-5.6	Name of Alternate Coding System		
OBX-5.9	Original Text		
OBX-6	Units		
OBX-6.1	Identifier		
OBX-6.2	Text		
OBX-6.3	Name of Coding System		
OBX-6.6	Name of Alternate Coding System		
OBX-11	Observation Result Status	F	

## OBX: Observation/Result

Location	Data Element	Data	Categorization
OBX-1	Set ID - OBX	2	
OBX-2	Value Type	NM	
OBX-3	Observation Identifier		
OBX-3.1	Identifier	21612-7	
OBX-3.2	Text		
OBX-3.3	Name of Coding System	LN	
OBX-3.6	Name of Alternate Coding System		
OBX-5	Observation Value	6	
OBX-6	Units		
OBX-6.1	Identifier	mo	
OBX-6.2	Text	age	
OBX-6.3	Name of Coding System	UCUM	
OBX-6.6	Name of Alternate Coding System		
OBX-11	Observation Result Status	F	



## OBX: Observation/Result

Location	Data Element	Data	Categorization
OBX-1	Set ID - OBX	3	
OBX-2	Value Type	CWE	
OBX-3	Observation Identifier		
OBX-3.1	Identifier	8661-1	
OBX-3.2	Text		
OBX-3.3	Name of Coding System	LN	
OBX-3.6	Name of Alternate Coding System		
OBX-5	Observation Value		
OBX-5.1	Identifier	Fever,cough,earache	
OBX-5.2	Text		
OBX-5.3	Name of Coding System		
OBX-5.6	Name of Alternate Coding System		
OBX-5.9	Original Text		
OBX-6	Units		
OBX-6.1	Identifier		
OBX-6.2	Text		
OBX-6.3	Name of Coding System		
OBX-6.6	Name of Alternate Coding System		
OBX-11	Observation Result Status	F	

## OBX: Observation/Result

Location	Data Element	Data	Categorization
OBX-1	Set ID - OBX	4	
OBX-2	Value Type	NM	
OBX-3	Observation Identifier		
OBX-3.1	Identifier	8302-2	
OBX-3.2	Text		
OBX-3.3	Name of Coding System	LN	
OBX-3.6	Name of Alternate Coding System		
OBX-5	Observation Value	27	
OBX-6	Units		
OBX-6.1	Identifier	[in_us]	
OBX-6.2	Text	inch	
OBX-6.3	Name of Coding System	UCUM	
OBX-6.6	Name of Alternate Coding System		
OBX-11	Observation Result Status	F	

## OBX: Observation/Result

Location	Data Element	Data	Categorization
OBX-1	Set ID - OBX	5	
OBX-2	Value Type	NM	
OBX-3	Observation Identifier		
OBX-3.1	Identifier	3141-9	
OBX-3.2	Text		
OBX-3.3	Name of Coding System	LN	
OBX-3.6	Name of Alternate Coding System		
OBX-5	Observation Value	17	
OBX-6	Units		
OBX-6.1	Identifier	[lb_av]	
OBX-6.2	Text	pound	
OBX-6.3	Name of Coding System	UCUM	
OBX-6.6	Name of Alternate Coding System		
OBX-11	Observation Result Status	F	

## OBX: Observation/Result

Location	Data Element	Data	Categorization
OBX-1	Set ID - OBX	6	
OBX-2	Value Type	CWE	
OBX-3	Observation Identifier		
OBX-3.1	Identifier	72166-2	
OBX-3.2	Text		
OBX-3.3	Name of Coding System	LN	
OBX-3.6	Name of Alternate Coding System		
OBX-5	Observation Value		
OBX-5.1	Identifier	266919005	
OBX-5.2	Text	Never smoker	
OBX-5.3	Name of Coding System	SCT	
OBX-5.6	Name of Alternate Coding System		
OBX-5.9	Original Text		
OBX-6	Units		
OBX-6.1	Identifier		
OBX-6.2	Text		
OBX-6.3	Name of Coding System		
OBX-6.6	Name of Alternate Coding System		
OBX-11	Observation Result Status	F	

## 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	age
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	Fever,cough,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.**

## 2.1. TC-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 (ADTA04), an update message (ADTA08), and a discharge message (ADTA03).

#### Comments

No Comments

#### Pre Condition

No PreCondition

#### Post Condition

No PostCondition

#### Test Objectives

No Test Objectives

#### Evaluation Criteria

No evaluation criteria

#### Notes for Testers

No Note





## 2.1.1. TS-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 V13.9XXA. 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 04 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. ICD-10 CM diagnosis codes are acceptable with or without decimals.

#### 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

No evaluation criteria

### Notes for Testers

An ICD-10CM code is used for coding the admit/encounter reason. The Tester may ignore errors generated by the Test Tool related to incorrect code when the ICD-10 code used in the message is determined to be a valid code.

## Message Contents

### MSH : Message Header

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

## EVN: Event Type

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

## PID : Patient Identification

Location	Data Element	Data	Categorization
PID-1	Set ID - PID	1	
PID-3	Patient Identifier List		
PID-3.1	ID Number	222	
PID-3.4	Assigning Authority		
PID-3.4.1	Namespace ID		
PID-3.4.2	Universal ID		
PID-3.4.3	Universal ID Type		
PID-5[1]	Patient Name		
PID-5[1].7	Name Type Code		
PID-5[2]	Patient Name		
PID-5[2].7	Name Type Code	U	
PID-8	Administrative Sex	F	
PID-10	Race		
PID-10.1	Identifier	2106-3	
PID-10.2	Text	White	
PID-10.3	Name of Coding System	CDCREC	
PID-10.6	Name of Alternate Coding System		
PID-11	Patient Address		
PID-11.3	City		
PID-11.4	State or Province		
PID-11.5	Zip or Postal Code		
PID-11.6	Country		
PID-11.9	County/Parish Code		
PID-22	Ethnic Group		
PID-22.1	Identifier		
PID-22.2	Text		
PID-22.3	Name of Coding System		
PID-22.6	Name of Alternate Coding System		
PID-29	Patient Death Date and Time		
PID-29.1	Time		
PID-30	Patient Death Indicator		

## PV1 : Patient Visit

Location	Data Element	Data	Categorization
PV1-1	Set ID - PV1	1	
PV1-2	Patient Class	E	
PV1-19	Visit Number		
PV1-19.1	ID Number	20120709_0064	
PV1-19.4	Assigning Authority		
PV1-19.4.1	Namespace ID		
PV1-19.4.2	Universal ID		
PV1-19.4.3	Universal ID Type		
PV1-44	Admit Date/Time		
PV1-44.1	Time	201207171700	

## PV2 : Patient Visit - Additional Information

Location	Data Element	Data	Categorization
PV2-3	Admit Reason		
PV2-3.1	Identifier	V13.9XXA	
PV2-3.2	Text	Unspecified pedal cyclist injured in collision with car, pick-up truck or van in traffic accident, initial encounter	
PV2-3.3	Name of Coding System	I10	
PV2-3.6	Name of Alternate Coding System		

## OBX[\*]

### OBX: Observation/Result

Location	Data Element	Data	Categorization
OBX-1	Set ID - OBX	1	
OBX-2	Value Type	CWE	
OBX-3	Observation Identifier		
OBX-3.1	Identifier	SS003	
OBX-3.2	Text		
OBX-3.3	Name of Coding System	PHINQUESTION	
OBX-3.6	Name of Alternate Coding System		
OBX-5	Observation Value		
OBX-5.1	Identifier	261QE0002X	
OBX-5.2	Text	Emergency Care	
OBX-5.3	Name of Coding System	NUCC	
OBX-5.6	Name of Alternate Coding System		
OBX-5.9	Original Text		
OBX-6	Units		
OBX-6.1	Identifier		
OBX-6.2	Text		
OBX-6.3	Name of Coding System		
OBX-6.6	Name of Alternate Coding System		
OBX-11	Observation Result Status	F	

## OBX: Observation/Result

Location	Data Element	Data	Categorization
OBX-1	Set ID - OBX	2	
OBX-2	Value Type	NM	
OBX-3	Observation Identifier		
OBX-3.1	Identifier	21612-7	
OBX-3.2	Text		
OBX-3.3	Name of Coding System	LN	
OBX-3.6	Name of Alternate Coding System		
OBX-5	Observation Value		
OBX-6	Units		
OBX-6.1	Identifier	UNK	
OBX-6.2	Text	Unknown	
OBX-6.3	Name of Coding System	NULLFL	
OBX-6.6	Name of Alternate Coding System		
OBX-11	Observation Result Status	F	

## OBX: Observation/Result

Location	Data Element	Data	Categorization
OBX-1	Set ID - OBX	3	
OBX-2	Value Type	NM	
OBX-3	Observation Identifier		
OBX-3.1	Identifier	8302-2	
OBX-3.2	Text		
OBX-3.3	Name of Coding System	LN	
OBX-3.6	Name of Alternate Coding System		
OBX-5	Observation Value	65	
OBX-6	Units		
OBX-6.1	Identifier	[in_us]	
OBX-6.2	Text	inch	
OBX-6.3	Name of Coding System	UCUM	
OBX-6.6	Name of Alternate Coding System		
OBX-11	Observation Result Status	F	



## OBX: Observation/Result

Location	Data Element	Data	Categorization
OBX-1	Set ID - OBX	4	
OBX-2	Value Type	NM	
OBX-3	Observation Identifier		
OBX-3.1	Identifier	3141-9	
OBX-3.2	Text		
OBX-3.3	Name of Coding System	LN	
OBX-3.6	Name of Alternate Coding System		
OBX-5	Observation Value	128	
OBX-6	Units		
OBX-6.1	Identifier	[lb_av]	
OBX-6.2	Text	pound	
OBX-6.3	Name of Coding System	UCUM	
OBX-6.6	Name of Alternate Coding System		
OBX-11	Observation Result Status	F	

## OBX: Observation/Result

Location	Data Element	Data	Categorization
OBX-1	Set ID - OBX	5	
OBX-2	Value Type	CWE	
OBX-3	Observation Identifier		
OBX-3.1	Identifier	72166-2	
OBX-3.2	Text		
OBX-3.3	Name of Coding System	LN	
OBX-3.6	Name of Alternate Coding System		
OBX-5	Observation Value		
OBX-5.1	Identifier	266927001	
OBX-5.2	Text	Unknown if ever smoked	
OBX-5.3	Name of Coding System	SCT	
OBX-5.6	Name of Alternate Coding System		
OBX-5.9	Original Text		
OBX-6	Units		
OBX-6.1	Identifier		
OBX-6.2	Text		
OBX-6.3	Name of Coding System		
OBX-6.6	Name of Alternate Coding System		
OBX-11	Observation Result Status	F	

## Test Data Specification

## Patient Information

Element	Data
Name	Unspecified
Sex	Female
Race1	White
Ethnic Group	
City	
State	
Zip Code	
Country	
County/Parish Code	
Patient Death Date and Time	
Patient Death Indicator	

## Visit Information

Element	Data
Admit or Encounter Reason	Unspecified pedal cyclist 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. TS-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 a 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 S02.10XA and S06.9X6A. Also at this time, the patient's license is used to also 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. ICD-10 CM diagnosis codes are acceptable with or without decimals.

#### Pre Condition

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

#### Post Condition

No PostCondition

#### Test Objectives

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

#### Evaluation Criteria

No evaluation criteria

#### Notes for Testers

An ICD-10 CM code is used for coding the working diagnosis. The Tester may ignore

errors generated by the Test Tool related to incorrect code when the ICD-10 code used in the message is determined to be a valid code.

## Message Contents

### MSH : Message Header

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

## EVN : Event Type

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

## PID : Patient Identification

Location	Data Element	Data	Categorization
PID-1	Set ID - PID	1	
PID-3	Patient Identifier List		
PID-3.1	ID Number	222	
PID-3.4	Assigning Authority		
PID-3.4.1	Namespace ID		
PID-3.4.2	Universal ID		
PID-3.4.3	Universal ID Type		
PID-5[1]	Patient Name		
PID-5[1].7	Name Type Code		
PID-5[2]	Patient Name		
PID-5[2].7	Name Type Code	U	
PID-8	Administrative Sex	F	
PID-10	Race		
PID-10.1	Identifier	2106-3	
PID-10.2	Text	White	
PID-10.3	Name of Coding System	CDCREC	
PID-10.6	Name of Alternate Coding System		
PID-11	Patient Address		
PID-11.3	City	Chicago	
PID-11.4	State or Province	17	
PID-11.5	Zip or Postal Code	60601	
PID-11.6	Country	USA	
PID-11.9	County/Parish Code		
PID-22	Ethnic Group		
PID-22.1	Identifier		
PID-22.2	Text		
PID-22.3	Name of Coding System		
PID-22.6	Name of Alternate Coding System		
PID-29	Patient Death Date and Time		
PID-29.1	Time		
PID-30	Patient Death Indicator		



## PV1 : Patient Visit

Location	Data Element	Data	Categorization
PV1-1	Set ID - PV1	1	
PV1-2	Patient Class	E	
PV1-19	Visit Number		
PV1-19.1	ID Number	20120709_0064	
PV1-19.4	Assigning Authority		
PV1-19.4.1	Namespace ID		
PV1-19.4.2	Universal ID		
PV1-19.4.3	Universal ID Type		
PV1-36	Discharge Disposition		
PV1-44	Admit Date/Time		
PV1-44.1	Time	201207171700	
PV1-45	Discharge Date/Time		
PV1-45.1	Time		

## PV2 : Patient Visit - Additional Information

Location	Data Element	Data	Categorization
PV2-3	Admit Reason		
PV2-3.1	Identifier	V13.9XXA	
PV2-3.2	Text	Unspecified pedal cyclist injured in collision with car, pick-up truck or van in traffic accident, initial encounter	
PV2-3.3	Name of Coding System	I10	
PV2-3.6	Name of Alternate Coding System		

## OBX[\*]

### OBX: Observation/Result

Location	Data Element	Data	Categorization
OBX-1	Set ID - OBX	1	
OBX-2	Value Type	CWE	
OBX-3	Observation Identifier		
OBX-3.1	Identifier	SS003	
OBX-3.2	Text		
OBX-3.3	Name of Coding System	PHINQUESTION	
OBX-3.6	Name of Alternate Coding System		
OBX-5	Observation Value		
OBX-5.1	Identifier	261QE0002X	
OBX-5.2	Text	Emergency Care	
OBX-5.3	Name of Coding System	NUCC	
OBX-5.6	Name of Alternate Coding System		
OBX-5.9	Original Text		
OBX-6	Units		
OBX-6.1	Identifier		
OBX-6.2	Text		
OBX-6.3	Name of Coding System		
OBX-6.6	Name of Alternate Coding System		
OBX-11	Observation Result Status	F	

## OBX: Observation/Result

Location	Data Element	Data	Categorization
OBX-1	Set ID - OBX	2	
OBX-2	Value Type	NM	
OBX-3	Observation Identifier		
OBX-3.1	Identifier	21612-7	
OBX-3.2	Text		
OBX-3.3	Name of Coding System	LN	
OBX-3.6	Name of Alternate Coding System		
OBX-5	Observation Value	35	
OBX-6	Units		
OBX-6.1	Identifier	a	
OBX-6.2	Text	year	
OBX-6.3	Name of Coding System	UCUM	
OBX-6.6	Name of Alternate Coding System		
OBX-11	Observation Result Status	F	

## OBX: Observation/Result

Location	Data Element	Data	Categorization
OBX-1	Set ID - OBX	3	
OBX-2	Value Type	NM	
OBX-3	Observation Identifier		
OBX-3.1	Identifier	8302-2	
OBX-3.2	Text		
OBX-3.3	Name of Coding System	LN	
OBX-3.6	Name of Alternate Coding System		
OBX-5	Observation Value	65	
OBX-6	Units		
OBX-6.1	Identifier	[in_us]	
OBX-6.2	Text	inch	
OBX-6.3	Name of Coding System	UCUM	
OBX-6.6	Name of Alternate Coding System		
OBX-11	Observation Result Status	F	

## OBX: Observation/Result

Location	Data Element	Data	Categorization
OBX-1	Set ID - OBX	4	
OBX-2	Value Type	NM	
OBX-3	Observation Identifier		
OBX-3.1	Identifier	3141-9	
OBX-3.2	Text		
OBX-3.3	Name of Coding System	LN	
OBX-3.6	Name of Alternate Coding System		
OBX-5	Observation Value	128	
OBX-6	Units		
OBX-6.1	Identifier	[lb_av]	
OBX-6.2	Text	pound	
OBX-6.3	Name of Coding System	UCUM	
OBX-6.6	Name of Alternate Coding System		
OBX-11	Observation Result Status	F	

## OBX : Observation/Result

Location	Data Element	Data	Categorization
OBX-1	Set ID - OBX	5	
OBX-2	Value Type	CWE	
OBX-3	Observation Identifier		
OBX-3.1	Identifier	72166-2	
OBX-3.2	Text		
OBX-3.3	Name of Coding System	LN	
OBX-3.6	Name of Alternate Coding System		
OBX-5	Observation Value		
OBX-5.1	Identifier	266927001	
OBX-5.2	Text	Unknown if ever smoked	
OBX-5.3	Name of Coding System	SCT	
OBX-5.6	Name of Alternate Coding System		
OBX-5.9	Original Text		
OBX-6	Units		
OBX-6.1	Identifier		
OBX-6.2	Text		
OBX-6.3	Name of Coding System		
OBX-6.6	Name of Alternate Coding System		
OBX-11	Observation Result Status	F	

## DG1[\*]

### DG1 : Diagnosis

Location	Data Element	Data	Categorization
DG1-1	Set ID - DG1	1	
DG1-3	Diagnosis Code - DG1		
DG1-3.1	Identifier	S02.10XA	
DG1-3.2	Text	Unspecified fracture of base of skull, initial encounter for closed fracture	
DG1-3.3	Name of Coding System	I10	
DG1-6	Diagnosis Type	W	

## DG1 : Diagnosis

Location	Data Element	Data	Categorization
DG1-1	Set ID - DG1	2	
DG1-3	Diagnosis Code - DG1		
DG1-3.1	Identifier	S06.9X6A	
DG1-3.2	Text	Unspecified intracranial injury with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	
DG1-3.3	Name of Coding System	I10	
DG1-6	Diagnosis Type	W	

## Test Data Specification

### Patient Information

Element	Data
Name	Unspecified
Sex	Female
Race1	White
Ethnic Group	
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	Unspecified pedal cyclist 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	Unspecified fracture of base of skull, initial encounter for closed fracture
Diagnosis	Unspecified intracranial injury with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, 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. TS-3 Discharge-A03

**Expired patient is discharged (dispositioned).**

### Test Story

#### Description

At 5:41 PM, the patient dies. The working diagnoses (ICD-10CM S02.10XA and S06.9X6A) are resolved/inactivated, and the final diagnosis is concussion with loss of consciousness of unspecified duration, initial encounter, ICD-10CM S06.0X9A. 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 03 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. ICD-10 CM diagnosis codes are acceptable with or without decimals.

#### Pre Condition

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

#### Post Condition

No PostCondition

#### Test Objectives

This test case 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

No evaluation criteria

#### Notes for Testers

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. An ICD-10 CM code is used for coding the final diagnosis. The Tester may ignore errors generated by the Test Tool related to incorrect code when the ICD-10 CM code used in the message is determined to be a valid code.

## 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	
MSH-4.2	Universal ID	1231231235	
MSH-4.3	Universal ID Type	NPI	
MSH-7	Date/Time Of Message		
MSH-7.1	Time	201207171800	Presence-Content Indifferent
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-Configuration
MSH-11	Processing ID		
MSH-11.1	Processing ID	P	
MSH-12	Version ID		
MSH-12.1	Version ID	2.5.1	Value-Profile Fixed
MSH-15	Accept Acknowledgment Type		
MSH-16	Application Acknowledgment Type		
MSH-21	Message Profile Identifier		
MSH-21.1	Entity Identifier	PH_SS-NoAck	Value-Test Case Fixed
MSH-21.2	Namespace ID	SS Sender	Value-Test Case 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	
EVN-7	Event Facility		
EVN-7.1	Namespace ID	WstrnRgnlMedCntr	
EVN-7.2	Universal ID	1231231235	
EVN-7.3	Universal ID Type	NPI	

## PID : Patient Identification

Location	Data Element	Data	Categorization
PID-1	Set ID - PID	1	
PID-3	Patient Identifier List		
PID-3.1	ID Number	222	
PID-3.4	Assigning Authority		
PID-3.4.1	Namespace ID		
PID-3.4.2	Universal ID		
PID-3.4.3	Universal ID Type		
PID-5[1]	Patient Name		
PID-5[1].7	Name Type Code		
PID-5[2]	Patient Name		
PID-5[2].7	Name Type Code	S	
PID-8	Administrative Sex	F	
PID-10	Race		
PID-10.1	Identifier	2106-3	
PID-10.2	Text		
PID-10.3	Name of Coding System	CDCREC	
PID-10.6	Name of Alternate Coding System		
PID-11	Patient Address		
PID-11.3	City	Chicago	
PID-11.4	State or Province	17	
PID-11.5	Zip or Postal Code	60601	
PID-11.6	Country	USA	
PID-11.9	County/Parish Code		
PID-22	Ethnic Group		
PID-22.1	Identifier		
PID-22.2	Text		
PID-22.3	Name of Coding System		
PID-22.6	Name of Alternate Coding System		
PID-29	Patient Death Date and Time		
PID-29.1	Time	201207171741	
PID-30	Patient Death Indicator	Y	

## PV1 : Patient Visit

Location	Data Element	Data	Categorization
PV1-1	Set ID - PV1	1	
PV1-2	Patient Class	E	
PV1-19	Visit Number		
PV1-19.1	ID Number	20120709_0064	
PV1-19.4	Assigning Authority		
PV1-19.4.1	Namespace ID		
PV1-19.4.2	Universal ID		
PV1-19.4.3	Universal ID Type		
PV1-36	Discharge Disposition	20	
PV1-44	Admit Date/Time		
PV1-44.1	Time	201207171700	
PV1-45	Discharge Date/Time		
PV1-45.1	Time	201207171800	

## PV2 : Patient Visit - Additional Information

Location	Data Element	Data	Categorization
PV2-3	Admit Reason		
PV2-3.1	Identifier	V13.9XXA	
PV2-3.2	Text	Unspecified pedal cyclist injured in collision with car, pick-up truck or van in traffic accident, initial encounter	
PV2-3.3	Name of Coding System	I10	
PV2-3.6	Name of Alternate Coding System		

## DG1 : Diagnosis

Location	Data Element	Data	Categorization
DG1-1	Set ID - DG1	1	
DG1-3	Diagnosis Code - DG1		
DG1-3.1	Identifier	S06.0X9A	
DG1-3.2	Text	Concussion with loss of consciousness of unspecified duration, initial encounter	
DG1-3.3	Name of Coding System	I10	
DG1-6	Diagnosis Type	F	

## OBX[\*]

### OBX : Observation/Result

Location	Data Element	Data	Categorization
OBX-1	Set ID - OBX	1	
OBX-2	Value Type	CWE	
OBX-3	Observation Identifier		
OBX-3.1	Identifier	SS003	
OBX-3.2	Text		
OBX-3.3	Name of Coding System	PHINQUESTION	
OBX-3.6	Name of Alternate Coding System		
OBX-5	Observation Value		
OBX-5.1	Identifier	261QE0002X	
OBX-5.2	Text	Emergency Care	
OBX-5.3	Name of Coding System	NUCC	
OBX-5.6	Name of Alternate Coding System		
OBX-5.9	Original Text		
OBX-6	Units		
OBX-6.1	Identifier		
OBX-6.2	Text		
OBX-6.3	Name of Coding System		
OBX-6.6	Name of Alternate Coding System		
OBX-11	Observation Result Status	F	

## OBX: Observation/Result

Location	Data Element	Data	Categorization
OBX-1	Set ID - OBX	2	
OBX-2	Value Type	NM	
OBX-3	Observation Identifier		
OBX-3.1	Identifier	21612-7	
OBX-3.2	Text		
OBX-3.3	Name of Coding System	LN	
OBX-3.6	Name of Alternate Coding System		
OBX-5	Observation Value	35	
OBX-6	Units		
OBX-6.1	Identifier	a	
OBX-6.2	Text	year	
OBX-6.3	Name of Coding System	UCUM	
OBX-6.6	Name of Alternate Coding System		
OBX-11	Observation Result Status	F	

## OBX: Observation/Result

Location	Data Element	Data	Categorization
OBX-1	Set ID - OBX	3	
OBX-2	Value Type	NM	
OBX-3	Observation Identifier		
OBX-3.1	Identifier	8302-2	
OBX-3.2	Text		
OBX-3.3	Name of Coding System	LN	
OBX-3.6	Name of Alternate Coding System		
OBX-5	Observation Value	65	
OBX-6	Units		
OBX-6.1	Identifier	[in_us]	
OBX-6.2	Text	inch	
OBX-6.3	Name of Coding System	UCUM	
OBX-6.6	Name of Alternate Coding System		
OBX-11	Observation Result Status	F	

## OBX: Observation/Result

Location	Data Element	Data	Categorization
OBX-1	Set ID - OBX	4	
OBX-2	Value Type	NM	
OBX-3	Observation Identifier		
OBX-3.1	Identifier	3141-9	
OBX-3.2	Text		
OBX-3.3	Name of Coding System	LN	
OBX-3.6	Name of Alternate Coding System		
OBX-5	Observation Value	128	
OBX-6	Units		
OBX-6.1	Identifier	[lb_av]	
OBX-6.2	Text	pound	
OBX-6.3	Name of Coding System	UCUM	
OBX-6.6	Name of Alternate Coding System		
OBX-11	Observation Result Status	F	



## OBX: Observation/Result

Location	Data Element	Data	Categorization
OBX-1	Set ID - OBX	5	
OBX-2	Value Type	CWE	
OBX-3	Observation Identifier		
OBX-3.1	Identifier	72166-2	
OBX-3.2	Text		
OBX-3.3	Name of Coding System	LN	
OBX-3.6	Name of Alternate Coding System		
OBX-5	Observation Value		
OBX-5.1	Identifier	266927001	
OBX-5.2	Text	Unknown if ever smoked	
OBX-5.3	Name of Coding System	SCT	
OBX-5.6	Name of Alternate Coding System		
OBX-5.9	Original Text		
OBX-6	Units		
OBX-6.1	Identifier		
OBX-6.2	Text		
OBX-6.3	Name of Coding System		
OBX-6.6	Name of Alternate Coding System		
OBX-11	Observation Result Status	F	

## Test Data Specification

## Patient Information

Element	Data
Name	Coded Pseudo-Name to ensure anonymity
Sex	Female
Race1	White
Ethnic Group	
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	Unspecified pedal cyclist 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 loss of consciousness of unspecified duration, 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.

### **3. ED Visit with Inpatient Admission**

**Patient seen in ED and admitted to hospital.**

# 3.1. TC-3 ED Visit-Patient Admitted

## ED Visit with addmission 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 (ADTA04), an update message (ADTA08), a discharge message (ADTA03), and an admission message (ADTA01).

#### Comments

No Comments

#### Pre Condition

No PreCondition

#### Post Condition

No PostCondition

#### Test Objectives

No Test Objectives

#### Evaluation Criteria

No evaluation criteria

#### Notes for Testers

No Note

# 3.1.1. TS-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 case 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

No evaluation criteria

### Notes for Testers

## Message Contents

### MSH : Message Header

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



## EVN : Event Type

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

## PID : Patient Identification

Location	Data Element	Data	Categorization
PID-1	Set ID - PID	1	
PID-3	Patient Identifier List		
PID-3.1	ID Number	3333	
PID-3.4	Assigning Authority		
PID-3.4.1	Namespace ID		
PID-3.4.2	Universal ID		
PID-3.4.3	Universal ID Type		
PID-5[1]	Patient Name		
PID-5[1].7	Name Type Code		
PID-5[2]	Patient Name		
PID-5[2].7	Name Type Code	S	
PID-8	Administrative Sex	M	
PID-10[1]	Race		
PID-10[1].1	Identifier	2106-3	
PID-10[1].2	Text	White	
PID-10[1].3	Name of Coding System	CDCREC	
PID-10[1].6	Name of Alternate Coding System		
PID-10[2]	Race		
PID-10[2].1	Identifier	1002-5	
PID-10[2].2	Text	American Indian or Alaska Native	
PID-10[2].3	Name of Coding System	CDCREC	
PID-10[2].6	Name of Alternate Coding System		
PID-10[3]	Race		
PID-10[3].1	Identifier	2131-1	
PID-10[3].2	Text	Other race	
PID-10[3].3	Name of Coding System	CDCREC	
PID-10[3].6	Name of Alternate Coding System		

PID-11	Patient Address		
PID-11.3	City	Oklahoma City	
PID-11.4	State or Province	40	
PID-11.5	Zip or Postal Code	74852	
PID-11.6	Country	USA	
PID-11.9	County/Parish Code	40125	
PID-22	Ethnic Group		
PID-22.1	Identifier	2186-5	
PID-22.2	Text	Not Hispanic or Latino	
PID-22.3	Name of Coding System	CDCREC	
PID-22.6	Name of Alternate Coding System		
PID-29	Patient Death Date and Time		
PID-29.1	Time		
PID-30	Patient Death Indicator		

## PV1 : Patient Visit

Location	Data Element	Data	Categorization
PV1-1	Set ID - PV1	1	
PV1-2	Patient Class		
PV1-19	Visit Number		
PV1-19.1	ID Number	3333_001	
PV1-19.4	Assigning Authority		
PV1-19.4.1	Namespace ID		
PV1-19.4.2	Universal ID		
PV1-19.4.3	Universal ID Type		
PV1-44	Admit Date/Time		
PV1-44.1	Time	201002010730	

## OBX[\*]

### OBX: Observation/Result

Location	Data Element	Data	Categorization
OBX-1	Set ID - OBX	1	
OBX-2	Value Type	CWE	
OBX-3	Observation Identifier		
OBX-3.1	Identifier	SS003	
OBX-3.2	Text		
OBX-3.3	Name of Coding System	PHINQUESTION	
OBX-3.6	Name of Alternate Coding System		
OBX-5	Observation Value		
OBX-5.1	Identifier	261QE0002X	
OBX-5.2	Text	Emergency Care	
OBX-5.3	Name of Coding System	NUCC	
OBX-5.6	Name of Alternate Coding System		
OBX-5.9	Original Text		
OBX-6	Units		
OBX-6.1	Identifier		
OBX-6.2	Text		
OBX-6.3	Name of Coding System		
OBX-6.6	Name of Alternate Coding System		
OBX-11	Observation Result Status	F	

## OBX : Observation/Result

Location	Data Element	Data	Categorization
OBX-1	Set ID - OBX	2	
OBX-2	Value Type	TX	
OBX-3	Observation Identifier		
OBX-3.1	Identifier	8661-1	
OBX-3.2	Text		
OBX-3.3	Name of Coding System	LN	
OBX-3.6	Name of Alternate Coding System		
OBX-5	Observation Value	A headache, nausea, and dizziness	
OBX-6	Units		
OBX-6.1	Identifier		
OBX-6.2	Text		
OBX-6.3	Name of Coding System		
OBX-6.6	Name of Alternate Coding System		
OBX-11	Observation Result Status	F	

## OBX : Observation/Result

Location	Data Element	Data	Categorization
OBX-1	Set ID - OBX	3	
OBX-2	Value Type	NM	
OBX-3	Observation Identifier		
OBX-3.1	Identifier	21612-7	
OBX-3.2	Text		
OBX-3.3	Name of Coding System	LN	
OBX-3.6	Name of Alternate Coding System		
OBX-5	Observation Value	70	
OBX-6	Units		
OBX-6.1	Identifier	a	
OBX-6.2	Text	year	
OBX-6.3	Name of Coding System	UCUM	
OBX-6.6	Name of Alternate Coding System		
OBX-11	Observation Result Status	F	

## OBX: Observation/Result

Location	Data Element	Data	Categorization
OBX-1	Set ID - OBX	4	
OBX-2	Value Type	NM	
OBX-3	Observation Identifier		
OBX-3.1	Identifier	8302-2	
OBX-3.2	Text		
OBX-3.3	Name of Coding System	LN	
OBX-3.6	Name of Alternate Coding System		
OBX-5	Observation Value	65	
OBX-6	Units		
OBX-6.1	Identifier	[in_us]	
OBX-6.2	Text	inch	
OBX-6.3	Name of Coding System	UCUM	
OBX-6.6	Name of Alternate Coding System		
OBX-11	Observation Result Status	F	

## OBX: Observation/Result

Location	Data Element	Data	Categorization
OBX-1	Set ID - OBX	5	
OBX-2	Value Type	NM	
OBX-3	Observation Identifier		
OBX-3.1	Identifier	3141-9	
OBX-3.2	Text		
OBX-3.3	Name of Coding System	LN	
OBX-3.6	Name of Alternate Coding System		
OBX-5	Observation Value	170	
OBX-6	Units		
OBX-6.1	Identifier	[lb_av]	
OBX-6.2	Text	pound	
OBX-6.3	Name of Coding System	UCUM	
OBX-6.6	Name of Alternate Coding System		
OBX-11	Observation Result Status	F	

## OBX: Observation/Result

Location	Data Element	Data	Categorization
OBX-1	Set ID - OBX	6	
OBX-2	Value Type	CWE	
OBX-3	Observation Identifier		
OBX-3.1	Identifier	72166-2	
OBX-3.2	Text		
OBX-3.3	Name of Coding System	LN	
OBX-3.6	Name of Alternate Coding System		
OBX-5	Observation Value		
OBX-5.1	Identifier	428061000124105	
OBX-5.2	Text	Current Light tobacco smoker	
OBX-5.3	Name of Coding System	SCT	
OBX-5.6	Name of Alternate Coding System		
OBX-5.9	Original Text		
OBX-6	Units		
OBX-6.1	Identifier		
OBX-6.2	Text		
OBX-6.3	Name of Coding System		
OBX-6.6	Name of Alternate Coding System		
OBX-11	Observation Result Status	F	

## 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	
Diagnosis Type	

## Observations[\*]

### Observation Results Information

Element	Data
Observation Identifier	Facility / Visit Type
Observation Value	261QE0002X Emergency Care NUCC
Units	
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	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	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. TS-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 17383000 (Toxic effect of carbon monoxide (disorder)), 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 case 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

No evaluation criteria

#### Notes for Testers

No Note

# Message Contents

## MSH : Message Header

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

## EVN : Event Type

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

## PID : Patient Identification

Location	Data Element	Data	Categorization
PID-1	Set ID - PID	1	
PID-3	Patient Identifier List		
PID-3.1	ID Number	3333	
PID-3.4	Assigning Authority		
PID-3.4.1	Namespace ID		
PID-3.4.2	Universal ID		
PID-3.4.3	Universal ID Type		
PID-5[1]	Patient Name		
PID-5[1].7	Name Type Code		
PID-5[2]	Patient Name		
PID-5[2].7	Name Type Code	S	
PID-8	Administrative Sex	M	
PID-10[1]	Race		
PID-10[1].1	Identifier	2106-3	
PID-10[1].2	Text	White	
PID-10[1].3	Name of Coding System	CDCREC	
PID-10[1].6	Name of Alternate Coding System		
PID-10[2]	Race		
PID-10[2].1	Identifier	1002-5	
PID-10[2].2	Text	American Indian or Alaska Native	
PID-10[2].3	Name of Coding System	CDCREC	
PID-10[2].6	Name of Alternate Coding System		
PID-10[3]	Race		
PID-10[3].1	Identifier	2131-1	
PID-10[3].2	Text	Other race	
PID-10[3].3	Name of Coding System	CDCREC	
PID-10[3].6	Name of Alternate Coding System		

PID-11	Patient Address		
PID-11.3	City	Oklahoma City	
PID-11.4	State or Province	40	
PID-11.5	Zip or Postal Code	74852	
PID-11.6	Country	USA	
PID-11.9	County/Parish Code	40125	
PID-22	Ethnic Group		
PID-22.1	Identifier	2186-5	
PID-22.2	Text	Not Hispanic or Latino	
PID-22.3	Name of Coding System	CDCREC	
PID-22.6	Name of Alternate Coding System		
PID-29	Patient Death Date and Time		
PID-29.1	Time		
PID-30	Patient Death Indicator		

## PV1 : Patient Visit

Location	Data Element	Data	Categorization
PV1-1	Set ID - PV1	1	
PV1-2	Patient Class		
PV1-19	Visit Number		
PV1-19.1	ID Number	3333_001	
PV1-19.4	Assigning Authority		
PV1-19.4.1	Namespace ID		
PV1-19.4.2	Universal ID		
PV1-19.4.3	Universal ID Type		
PV1-36	Discharge Disposition		
PV1-44	Admit Date/Time		
PV1-44.1	Time	201002010730	
PV1-45	Discharge Date/Time		
PV1-45.1	Time		

## OBX[\*]

### OBX: Observation/Result

Location	Data Element	Data	Categorization
OBX-1	Set ID - OBX	1	
OBX-2	Value Type	CWE	
OBX-3	Observation Identifier		
OBX-3.1	Identifier	SS003	
OBX-3.2	Text		
OBX-3.3	Name of Coding System	PHINQUESTION	
OBX-3.6	Name of Alternate Coding System		
OBX-5	Observation Value		
OBX-5.1	Identifier	261QE0002X	
OBX-5.2	Text	Emergency Care	
OBX-5.3	Name of Coding System	NUCC	
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		
OBX-6.2	Text		
OBX-6.3	Name of Coding System		
OBX-6.6	Name of Alternate Coding System		
OBX-11	Observation Result Status	F	

## OBX : Observation/Result

Location	Data Element	Data	Categorization
OBX-1	Set ID - OBX	2	
OBX-2	Value Type	TX	
OBX-3	Observation Identifier		
OBX-3.1	Identifier	8661-1	
OBX-3.2	Text		
OBX-3.3	Name of Coding System	LN	
OBX-3.6	Name of Alternate Coding System		
OBX-5	Observation Value	A headache, nausea, and dizziness	
OBX-6	Units		
OBX-6.1	Identifier		
OBX-6.2	Text		
OBX-6.3	Name of Coding System		
OBX-6.6	Name of Alternate Coding System		
OBX-11	Observation Result Status	F	

## OBX : Observation/Result

Location	Data Element	Data	Categorization
OBX-1	Set ID - OBX	3	
OBX-2	Value Type	NM	
OBX-3	Observation Identifier		
OBX-3.1	Identifier	21612-7	
OBX-3.2	Text		
OBX-3.3	Name of Coding System	LN	
OBX-3.6	Name of Alternate Coding System		
OBX-5	Observation Value	70	
OBX-6	Units		
OBX-6.1	Identifier	a	
OBX-6.2	Text	year	
OBX-6.3	Name of Coding System	UCUM	
OBX-6.6	Name of Alternate Coding System		
OBX-11	Observation Result Status	F	



## OBX: Observation/Result

Location	Data Element	Data	Categorization
OBX-1	Set ID - OBX	4	
OBX-2	Value Type	NM	
OBX-3	Observation Identifier		
OBX-3.1	Identifier	8302-2	
OBX-3.2	Text		
OBX-3.3	Name of Coding System	LN	
OBX-3.6	Name of Alternate Coding System		
OBX-5	Observation Value	65	
OBX-6	Units		
OBX-6.1	Identifier	[in_us]	
OBX-6.2	Text	inch	
OBX-6.3	Name of Coding System	UCUM	
OBX-6.6	Name of Alternate Coding System		
OBX-11	Observation Result Status	F	

## OBX: Observation/Result

Location	Data Element	Data	Categorization
OBX-1	Set ID - OBX	5	
OBX-2	Value Type	NM	
OBX-3	Observation Identifier		
OBX-3.1	Identifier	3141-9	
OBX-3.2	Text		
OBX-3.3	Name of Coding System	LN	
OBX-3.6	Name of Alternate Coding System		
OBX-5	Observation Value	170	
OBX-6	Units		
OBX-6.1	Identifier	[lb_av]	
OBX-6.2	Text	pound	
OBX-6.3	Name of Coding System	UCUM	
OBX-6.6	Name of Alternate Coding System		
OBX-11	Observation Result Status	F	

## OBX : Observation/Result

Location	Data Element	Data	Categorization
OBX-1	Set ID - OBX	6	
OBX-2	Value Type	CWE	
OBX-3	Observation Identifier		
OBX-3.1	Identifier	72166-2	
OBX-3.2	Text		
OBX-3.3	Name of Coding System	LN	
OBX-3.6	Name of Alternate Coding System		
OBX-5	Observation Value		
OBX-5.1	Identifier	428061000124105	
OBX-5.2	Text	Current Light tobacco smoker	
OBX-5.3	Name of Coding System	SCT	
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		
OBX-6.2	Text		
OBX-6.3	Name of Coding System		
OBX-6.6	Name of Alternate Coding System		
OBX-11	Observation Result Status	F	

## DG1 : Diagnosis

Location	Data Element	Data	Categorization
DG1-1	Set ID - DG1	1	
DG1-3	Diagnosis Code - DG1		
DG1-3.1	Identifier	17383000	
DG1-3.2	Text	Toxic effect of carbon monoxide (disorder)	
DG1-3.3	Name of Coding System	SCT	
DG1-6	Diagnosis Type	W	

# 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	
Discharge Disposition	
Discharge Date/Time	
Diagnosis Type	Working
Diagnosis	Toxic effect of carbon monoxide (disorder)

## Observations[\*]

### Observation Results Information

Element	Data
Observation Identifier	Facility / Visit Type
Observation Value	261QE0002X Emergency Care NUCC
Units	
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	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	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. TS-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 Toxic effect of carbon monoxide (disorder) (SNOMED code 17383000). 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 case examines an Health IT Module's ability to create ADT A03-Discharge message within the PHIN Messaging Guide's conformance requirements.

#### Evaluation Criteria

No evaluation criteria

#### Notes for Testers

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.

## 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	
MSH-4.2	Universal ID	1231231236	
MSH-4.3	Universal ID Type	NPI	
MSH-7	Date/Time Of Message		
MSH-7.1	Time	201002010830	Presence-Content Indifferent
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-Configuration
MSH-11	Processing ID		
MSH-11.1	Processing ID	P	
MSH-12	Version ID		
MSH-12.1	Version ID	2.5.1	Value-Profile Fixed
MSH-15	Accept Acknowledgment Type		
MSH-16	Application Acknowledgment Type		
MSH-21	Message Profile Identifier		
MSH-21.1	Entity Identifier	PH_SS-NoAck	Value-Test Case Fixed
MSH-21.2	Namespace ID	SS Sender	Value-Test Case 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	
EVN-7	Event Facility		
EVN-7.1	Namespace ID	SthrnMdwstMedCntr	
EVN-7.2	Universal ID	1231231236	
EVN-7.3	Universal ID Type	NPI	

## PID : Patient Identification

Location	Data Element	Data	Categorization
PID-1	Set ID - PID	1	
PID-3	Patient Identifier List		
PID-3.1	ID Number	3333	
PID-3.4	Assigning Authority		
PID-3.4.1	Namespace ID		
PID-3.4.2	Universal ID		
PID-3.4.3	Universal ID Type		
PID-5[1]	Patient Name		
PID-5[1].7	Name Type Code		
PID-5[2]	Patient Name		
PID-5[2].7	Name Type Code	S	
PID-8	Administrative Sex	M	
PID-10[1]	Race		
PID-10[1].1	Identifier	2106-3	
PID-10[1].2	Text	White	
PID-10[1].3	Name of Coding System	CDCREC	
PID-10[1].6	Name of Alternate Coding System		
PID-10[2]	Race		
PID-10[2].1	Identifier	1002-5	
PID-10[2].2	Text	American Indian or Alaska Native	
PID-10[2].3	Name of Coding System	CDCREC	
PID-10[2].6	Name of Alternate Coding System		
PID-10[3]	Race		
PID-10[3].1	Identifier	2131-1	
PID-10[3].2	Text	Other race	
PID-10[3].3	Name of Coding System	CDCREC	
PID-10[3].6	Name of Alternate Coding System		

PID-11	Patient Address		
PID-11.3	City	Oklahoma City	
PID-11.4	State or Province	40	
PID-11.5	Zip or Postal Code	74852	
PID-11.6	Country	USA	
PID-11.9	County/Parish Code	40125	
PID-22	Ethnic Group		
PID-22.1	Identifier	2186-5	
PID-22.2	Text	Not Hispanic or Latino	
PID-22.3	Name of Coding System	CDCREC	
PID-22.6	Name of Alternate Coding System		
PID-29	Patient Death Date and Time		
PID-29.1	Time		
PID-30	Patient Death Indicator		

## PV1 : Patient Visit

Location	Data Element	Data	Categorization
PV1-1	Set ID - PV1	1	
PV1-2	Patient Class		
PV1-19	Visit Number		
PV1-19.1	ID Number	3333_001	
PV1-19.4	Assigning Authority		
PV1-19.4.1	Namespace ID		
PV1-19.4.2	Universal ID		
PV1-19.4.3	Universal ID Type		
PV1-36	Discharge Disposition	09	
PV1-44	Admit Date/Time		
PV1-44.1	Time	201002010730	
PV1-45	Discharge Date/Time		
PV1-45.1	Time		

## DG1 : Diagnosis

Location	Data Element	Data	Categorization
DG1-1	Set ID - DG1	1	
DG1-3	Diagnosis Code - DG1		
DG1-3.1	Identifier	17383000	
DG1-3.2	Text	Toxic effect of carbon monoxide (disorder)	
DG1-3.3	Name of Coding System	SCT	
DG1-6	Diagnosis Type	W	

## OBX[\*]

### OBX: Observation/Result

Location	Data Element	Data	Categorization
OBX-1	Set ID - OBX	1	
OBX-2	Value Type	CWE	
OBX-3	Observation Identifier		
OBX-3.1	Identifier	SS003	
OBX-3.2	Text		
OBX-3.3	Name of Coding System	PHINQUESTION	
OBX-3.6	Name of Alternate Coding System		
OBX-5	Observation Value		
OBX-5.1	Identifier	261QE0002X	
OBX-5.2	Text	Emergency Care	
OBX-5.3	Name of Coding System	NUCC	
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		
OBX-6.2	Text		
OBX-6.3	Name of Coding System		
OBX-6.6	Name of Alternate Coding System		
OBX-11	Observation Result Status	F	

## OBX: Observation/Result

Location	Data Element	Data	Categorization
OBX-1	Set ID - OBX	2	
OBX-2	Value Type	TX	
OBX-3	Observation Identifier		
OBX-3.1	Identifier	8661-1	
OBX-3.2	Text		
OBX-3.3	Name of Coding System	LN	
OBX-3.6	Name of Alternate Coding System		
OBX-5	Observation Value	A headache, nausea, and dizziness	
OBX-6	Units		
OBX-6.1	Identifier		
OBX-6.2	Text		
OBX-6.3	Name of Coding System		
OBX-6.6	Name of Alternate Coding System		
OBX-11	Observation Result Status	F	

## OBX: Observation/Result

Location	Data Element	Data	Categorization
OBX-1	Set ID - OBX	3	
OBX-2	Value Type	NM	
OBX-3	Observation Identifier		
OBX-3.1	Identifier	21612-7	
OBX-3.2	Text		
OBX-3.3	Name of Coding System	LN	
OBX-3.6	Name of Alternate Coding System		
OBX-5	Observation Value	70	
OBX-6	Units		
OBX-6.1	Identifier	a	
OBX-6.2	Text	year	
OBX-6.3	Name of Coding System	UCUM	
OBX-6.6	Name of Alternate Coding System		
OBX-11	Observation Result Status	F	

## OBX: Observation/Result

Location	Data Element	Data	Categorization
OBX-1	Set ID - OBX	4	
OBX-2	Value Type	NM	
OBX-3	Observation Identifier		
OBX-3.1	Identifier	8302-2	
OBX-3.2	Text		
OBX-3.3	Name of Coding System	LN	
OBX-3.6	Name of Alternate Coding System		
OBX-5	Observation Value	65	
OBX-6	Units		
OBX-6.1	Identifier	[in_us]	
OBX-6.2	Text	inch	
OBX-6.3	Name of Coding System	UCUM	
OBX-6.6	Name of Alternate Coding System		
OBX-11	Observation Result Status	F	

## OBX: Observation/Result

Location	Data Element	Data	Categorization
OBX-1	Set ID - OBX	5	
OBX-2	Value Type	NM	
OBX-3	Observation Identifier		
OBX-3.1	Identifier	3141-9	
OBX-3.2	Text		
OBX-3.3	Name of Coding System	LN	
OBX-3.6	Name of Alternate Coding System		
OBX-5	Observation Value	170	
OBX-6	Units		
OBX-6.1	Identifier	[lb_av]	
OBX-6.2	Text	pound	
OBX-6.3	Name of Coding System	UCUM	
OBX-6.6	Name of Alternate Coding System		
OBX-11	Observation Result Status	F	

## OBX: Observation/Result

Location	Data Element	Data	Categorization
OBX-1	Set ID - OBX	6	
OBX-2	Value Type	CWE	
OBX-3	Observation Identifier		
OBX-3.1	Identifier	72166-2	
OBX-3.2	Text		
OBX-3.3	Name of Coding System	LN	
OBX-3.6	Name of Alternate Coding System		
OBX-5	Observation Value		
OBX-5.1	Identifier	428061000124105	
OBX-5.2	Text	Current Light tobacco smoker	
OBX-5.3	Name of Coding System	SCT	
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		
OBX-6.2	Text		
OBX-6.3	Name of Coding System		
OBX-6.6	Name of Alternate Coding System		
OBX-11	Observation Result Status	F	

## 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	
Discharge Disposition	Admitted as an inpatient to this hospital
Discharge Date/Time	
Diagnosis Type	Working
Diagnosis	Toxic effect of carbon monoxide (disorder)

## Observations[\*]

### Observation Results Information

Element	Data
Observation Identifier	Facility / Visit Type
Observation Value	261QE0002X Emergency Care NUCC
Units	
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	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	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. TS-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, "Toxic effect of carbon monoxide (disorder) (SNOMED code 17383000)". 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 case 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

No evaluation criteria

#### Notes for Testers

The 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, "Emergency Care" is messaged in the OBX.5 element in the A01 message.

## Message Contents

### MSH : Message Header

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

## EVN : Event Type

Location	Data Element	Data	Categorization
EVN-2	Recorded Date/Time		
EVN-2.1	Time	201002010835	
EVN-7	Event Facility		
EVN-7.1	Namespace ID	SthrnMdwstMedCntr	
EVN-7.2	Universal ID	1231231236	
EVN-7.3	Universal ID Type	NPI	

## PID : Patient Identification

Location	Data Element	Data	Categorization
PID-1	Set ID - PID	1	
PID-3	Patient Identifier List		
PID-3.1	ID Number	3333	
PID-3.4	Assigning Authority		
PID-3.4.1	Namespace ID		
PID-3.4.2	Universal ID		
PID-3.4.3	Universal ID Type		
PID-5[1]	Patient Name		
PID-5[1].7	Name Type Code		
PID-5[2]	Patient Name		
PID-5[2].7	Name Type Code	S	
PID-8	Administrative Sex	M	Presence-Test Case Proper
PID-10[1]	Race		
PID-10[1].1	Identifier	2106-3	
PID-10[1].2	Text	White	
PID-10[1].3	Name of Coding System	CDCREC	
PID-10[1].6	Name of Alternate Coding System		
PID-10[2]	Race		
PID-10[2].1	Identifier	1002-5	
PID-10[2].2	Text	American Indian or Alaska Native	
PID-10[2].3	Name of Coding System	CDCREC	
PID-10[2].6	Name of Alternate Coding System		
PID-10[3]	Race		
PID-10[3].1	Identifier	2131-1	
PID-10[3].2	Text	Other race	
PID-10[3].3	Name of Coding System	CDCREC	
	Name of Alternate		

PID-10[3].6	Coding System		
PID-11	Patient Address		
PID-11.3	City	Oklahoma City	
PID-11.4	State or Province	40	
PID-11.5	Zip or Postal Code	74852	
PID-11.6	Country	USA	
PID-11.9	County/Parish Code	40125	
PID-22	Ethnic Group		
PID-22.1	Identifier	2186-5	
PID-22.2	Text	Not Hispanic or Latino	
PID-22.3	Name of Coding System	CDCREC	
PID-22.6	Name of Alternate Coding System		

## PV1 : Patient Visit

Location	Data Element	Data	Categorization
PV1-1	Set ID - PV1	1	
PV1-2	Patient Class		
PV1-19	Visit Number		
PV1-19.1	ID Number	3333_001	
PV1-19.4	Assigning Authority		
PV1-19.4.1	Namespace ID		
PV1-19.4.2	Universal ID		
PV1-19.4.3	Universal ID Type		
PV1-44	Admit Date/Time		
PV1-44.1	Time	201002010730	

## PV2 : Patient Visit - Additional Information

Location	Data Element	Data	Categorization
PV2-3	Admit Reason		
PV2-3.1	Identifier	17383000	
PV2-3.2	Text	Toxic effect of carbon monoxide (disorder)	
PV2-3.3	Name of Coding System	SCT	
PV2-3.6	Name of Alternate Coding System		

OBX[\*]

## OBX: Observation/Result

Location	Data Element	Data	Categorization
OBX-1	Set ID - OBX	1	
OBX-2	Value Type	CWE	
OBX-3	Observation Identifier		
OBX-3.1	Identifier	SS003	
OBX-3.2	Text		
OBX-3.3	Name of Coding System	PHINQUESTION	
OBX-3.6	Name of Alternate Coding System		
OBX-5	Observation Value		
OBX-5.1	Identifier	261QE0002X	
OBX-5.2	Text	Emergency Care	
OBX-5.3	Name of Coding System	NUCC	
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		
OBX-6.2	Text		
OBX-6.3	Name of Coding System		
OBX-6.6	Name of Alternate Coding System		
OBX-11	Observation Result Status	F	

## OBX : Observation/Result

Location	Data Element	Data	Categorization
OBX-1	Set ID - OBX	2	
OBX-2	Value Type	TX	
OBX-3	Observation Identifier		
OBX-3.1	Identifier	8661-1	
OBX-3.2	Text		
OBX-3.3	Name of Coding System	LN	
OBX-3.6	Name of Alternate Coding System		
OBX-5	Observation Value	A headache, nausea, and dizziness	
OBX-6	Units		
OBX-6.1	Identifier		
OBX-6.2	Text		
OBX-6.3	Name of Coding System		
OBX-6.6	Name of Alternate Coding System		
OBX-11	Observation Result Status	F	

## OBX : Observation/Result

Location	Data Element	Data	Categorization
OBX-1	Set ID - OBX	3	
OBX-2	Value Type	NM	
OBX-3	Observation Identifier		
OBX-3.1	Identifier	21612-7	
OBX-3.2	Text		
OBX-3.3	Name of Coding System	LN	
OBX-3.6	Name of Alternate Coding System		
OBX-5	Observation Value	70	
OBX-6	Units		
OBX-6.1	Identifier	a	
OBX-6.2	Text	year	
OBX-6.3	Name of Coding System	UCUM	
OBX-6.6	Name of Alternate Coding System		
OBX-11	Observation Result Status	F	



## OBX: Observation/Result

Location	Data Element	Data	Categorization
OBX-1	Set ID - OBX	4	
OBX-2	Value Type	NM	
OBX-3	Observation Identifier		
OBX-3.1	Identifier	8302-2	
OBX-3.2	Text		
OBX-3.3	Name of Coding System	LN	
OBX-3.6	Name of Alternate Coding System		
OBX-5	Observation Value	65	
OBX-6	Units		
OBX-6.1	Identifier	[in_us]	
OBX-6.2	Text	inch	
OBX-6.3	Name of Coding System	UCUM	
OBX-6.6	Name of Alternate Coding System		
OBX-11	Observation Result Status	F	

## OBX: Observation/Result

Location	Data Element	Data	Categorization
OBX-1	Set ID - OBX	5	
OBX-2	Value Type	NM	
OBX-3	Observation Identifier		
OBX-3.1	Identifier	3141-9	
OBX-3.2	Text		
OBX-3.3	Name of Coding System	LN	
OBX-3.6	Name of Alternate Coding System		
OBX-5	Observation Value	170	
OBX-6	Units		
OBX-6.1	Identifier	[lb_av]	
OBX-6.2	Text	pound	
OBX-6.3	Name of Coding System	UCUM	
OBX-6.6	Name of Alternate Coding System		
OBX-11	Observation Result Status	F	

## OBX: Observation/Result

Location	Data Element	Data	Categorization
OBX-1	Set ID - OBX	6	
OBX-2	Value Type	CWE	
OBX-3	Observation Identifier		
OBX-3.1	Identifier	72166-2	
OBX-3.2	Text		
OBX-3.3	Name of Coding System	LN	
OBX-3.6	Name of Alternate Coding System		
OBX-5	Observation Value		
OBX-5.1	Identifier	428061000124105	
OBX-5.2	Text	Current Light tobacco smoker	
OBX-5.3	Name of Coding System	SCT	
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		
OBX-6.2	Text		
OBX-6.3	Name of Coding System		
OBX-6.6	Name of Alternate Coding System		
OBX-11	Observation Result Status	F	

## 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	Toxic effect of carbon monoxide (disorder)
Admit Date and Time	02/01/2010 7:30 AM
Patient Class	
Diagnosis Type	

## Observations[\*]

### Observation Results Information

Element	Data
Observation Identifier	Facility / Visit Type
Observation Value	261QE0002X Emergency Care NUCC
Units	
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	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	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.**

# 4.1. TC-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 (ADTA01); and a discharge message (ADTA03).

### Comments

No Comments

### Pre Condition

No PreCondition

### Post Condition

No PostCondition

### Test Objectives

No Test Objectives

### Evaluation Criteria

No evaluation criteria

### Notes for Testers

No Note



# 4.1.1. TS-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 z95.5, and inputs multiple diagnoses for the patient (Primary I25.0, secondary I20.9, and tertiary R07.4). 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 01 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. ICD-10 diagnosis codes are acceptable with or without decimals.

#### Pre Condition

No PreCondition

#### Post Condition

No PostCondition

#### Test Objectives

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

#### Evaluation Criteria

No evaluation criteria

### Notes for Testers

An ICD-10 CM code is used for coding the working diagnosis. The Tester may ignore errors generated by the Test Tool related to incorrect code when the ICD-10 code used in the message is determined to be a valid code.

## Message Contents

### MSH : Message Header

Location	Data Element	Data	Categorization
MSH-1	Field Separator		
MSH-2	Encoding Characters	^~\&	
MSH-4	Sending Facility		
MSH-4.1	Namespace ID	MountainviewGeneral	
MSH-4.2	Universal ID	1231231236	
MSH-4.3	Universal ID Type	NPI	
MSH-7	Date/Time Of Message		
MSH-7.1	Time	201508180200	
MSH-9	Message Type		
MSH-9.1	Message Code	ADT	
MSH-9.2	Trigger Event	A01	
MSH-9.3	Message Structure	ADT_A01	
MSH-10	Message Control ID	NIST-SS-003.41	
MSH-11	Processing ID		
MSH-11.1	Processing ID	P	
MSH-12	Version ID		
MSH-12.1	Version ID	2.5.1	
MSH-15	Accept Acknowledgment Type		
MSH-16	Application Acknowledgment Type		
MSH-21	Message Profile Identifier		
MSH-21.1	Entity Identifier	PH_SS-NoAck	
MSH-21.2	Namespace ID	SS Sender	
MSH-21.3	Universal ID	2.16.840.1.114222.4.10.3	
MSH-21.4	Universal ID Type	ISO	

## EVN : Event Type

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

## PID : Patient Identification

Location	Data Element	Data	Categorization
PID-1	Set ID - PID	1	
PID-3	Patient Identifier List		
PID-3.1	ID Number	3333	
PID-3.4	Assigning Authority		
PID-3.4.1	Namespace ID		
PID-3.4.2	Universal ID		
PID-3.4.3	Universal ID Type		
PID-5[1]	Patient Name		
PID-5[1].7	Name Type Code		
PID-5[2]	Patient Name		
PID-5[2].7	Name Type Code	U	
PID-8	Administrative Sex	M	
PID-10	Race		
PID-10.1	Identifier	2106-3	
PID-10.2	Text	White	
PID-10.3	Name of Coding System	CDCREC	
PID-10.6	Name of Alternate Coding System		
PID-11	Patient Address		
PID-11.3	City	Columbus	
PID-11.4	State or Province	39	
PID-11.5	Zip or Postal Code	43058	
PID-11.6	Country	USA	
PID-11.9	County/Parish Code	Worthington	
PID-22	Ethnic Group		
PID-22.1	Identifier	2135-2	
PID-22.2	Text	Hispanic or Latino	
PID-22.3	Name of Coding System	CDCREC	
PID-22.6	Name of Alternate Coding System		

## PV1 : Patient Visit

Location	Data Element	Data	Categorization
PV1-1	Set ID - PV1	1	
PV1-2	Patient Class		
PV1-19	Visit Number		
PV1-19.1	ID Number	3333_001	
PV1-19.4	Assigning Authority		
PV1-19.4.1	Namespace ID		
PV1-19.4.2	Universal ID		
PV1-19.4.3	Universal ID Type		
PV1-44	Admit Date/Time		
PV1-44.1	Time	201508171400	

## PV2 : Patient Visit - Additional Information

Location	Data Element	Data	Categorization
PV2-3	Admit Reason		
PV2-3.1	Identifier	z95.5	
PV2-3.2	Text	Removal of coronary artery obstruction, and stent insertions	
PV2-3.3	Name of Coding System	I10	
PV2-3.6	Name of Alternate Coding System		

## OBX[\*]

### OBX: Observation/Result

Location	Data Element	Data	Categorization
OBX-1	Set ID - OBX	1	
OBX-2	Value Type	HD	
OBX-3	Observation Identifier		
OBX-3.1	Identifier	SS001	
OBX-3.2	Text	TREATING FACILITY IDENTIFIER	
OBX-3.3	Name of Coding System	PHINQUESTION	
OBX-3.6	Name of Alternate Coding System		
OBX-5	Observation Value		
OBX-5.1	Namespace ID	MountainviewGeneral	
OBX-5.2	Universal ID	1231231236	
OBX-5.3	Universal ID Type	NPI	
OBX-6	Units		
OBX-6.1	Identifier		
OBX-6.2	Text		
OBX-6.3	Name of Coding System		
OBX-6.6	Name of Alternate Coding System		
OBX-11	Observation Result Status	F	

## OBX: Observation/Result

Location	Data Element	Data	Categorization
OBX-1	Set ID - OBX	2	
OBX-2	Value Type	CWE	
OBX-3	Observation Identifier		
OBX-3.1	Identifier	SS003	
OBX-3.2	Text	FACILITY/VISIT TYPE	
OBX-3.3	Name of Coding System	PHINQUESTION	
OBX-3.6	Name of Alternate Coding System		
OBX-5	Observation Value		
OBX-5.1	Identifier	261QP2300X	
OBX-5.2	Text	Primary Care	
OBX-5.3	Name of Coding System	HCPTNUCC	
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		
OBX-6.2	Text		
OBX-6.3	Name of Coding System		
OBX-6.6	Name of Alternate Coding System		
OBX-11	Observation Result Status	F	

## OBX: Observation/Result

Location	Data Element	Data	Categorization
OBX-1	Set ID - OBX	3	
OBX-2	Value Type	NM	
OBX-3	Observation Identifier		
OBX-3.1	Identifier	21612-7	
OBX-3.2	Text		
OBX-3.3	Name of Coding System	LN	
OBX-3.6	Name of Alternate Coding System		
OBX-5	Observation Value	51	
OBX-6	Units		
OBX-6.1	Identifier	a	
OBX-6.2	Text	year	
OBX-6.3	Name of Coding System	UCUM	
OBX-6.6	Name of Alternate Coding System		
OBX-11	Observation Result Status	F	

## OBX: Observation/Result

Location	Data Element	Data	Categorization
OBX-1	Set ID - OBX	4	
OBX-2	Value Type	NM	
OBX-3	Observation Identifier		
OBX-3.1	Identifier	8302-2	
OBX-3.2	Text		
OBX-3.3	Name of Coding System	LN	
OBX-3.6	Name of Alternate Coding System		
OBX-5	Observation Value	72	
OBX-6	Units		
OBX-6.1	Identifier	[in_us]	
OBX-6.2	Text	inch	
OBX-6.3	Name of Coding System	UCUM	
OBX-6.6	Name of Alternate Coding System		
OBX-11	Observation Result Status	F	

## OBX: Observation/Result

Location	Data Element	Data	Categorization
OBX-1	Set ID - OBX	5	
OBX-2	Value Type	NM	
OBX-3	Observation Identifier		
OBX-3.1	Identifier	3141-9	
OBX-3.2	Text		
OBX-3.3	Name of Coding System	LN	
OBX-3.6	Name of Alternate Coding System		
OBX-5	Observation Value	235	
OBX-6	Units		
OBX-6.1	Identifier	[lb_av]	
OBX-6.2	Text	pound	
OBX-6.3	Name of Coding System	UCUM	
OBX-6.6	Name of Alternate Coding System		
OBX-11	Observation Result Status	F	



## OBX: Observation/Result

Location	Data Element	Data	Categorization
OBX-1	Set ID - OBX	6	
OBX-2	Value Type	CWE	
OBX-3	Observation Identifier		
OBX-3.1	Identifier	72166-2	
OBX-3.2	Text		
OBX-3.3	Name of Coding System	LN	
OBX-3.6	Name of Alternate Coding System		
OBX-5	Observation Value		
OBX-5.1	Identifier	428061000124105	
OBX-5.2	Text	Current Light tobacco smoker	
OBX-5.3	Name of Coding System	SCT	
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		
OBX-6.2	Text		
OBX-6.3	Name of Coding System		
OBX-6.6	Name of Alternate Coding System		
OBX-11	Observation Result Status	F	

## — DG1[\*] —

### — DG1 : Diagnosis —

Location	Data Element	Data	Categorization
DG1-1	Set ID - DG1	1	
DG1-3	Diagnosis Code - DG1		
DG1-3.1	Identifier	I250	
DG1-3.2	Text	Atherosclerotic heart disease of native coronary artery without angina pectoris	
DG1-3.3	Name of Coding System	I10	
DG1-6	Diagnosis Type	W	

### — DG1 : Diagnosis —

Location	Data Element	Data	Categorization
DG1-1	Set ID - DG1	2	
DG1-3	Diagnosis Code - DG1		
DG1-3.1	Identifier	I209	
DG1-3.2	Text	Angina pectoris, unspecified	
DG1-3.3	Name of Coding System	I10	
DG1-6	Diagnosis Type	W	

### — DG1 : Diagnosis —

Location	Data Element	Data	Categorization
DG1-1	Set ID - DG1	3	
DG1-3	Diagnosis Code - DG1		
DG1-3.1	Identifier	R074	
DG1-3.2	Text	Chest Pain	
DG1-3.3	Name of Coding System	I10	
DG1-6	Diagnosis Type	W	

# Test Data Specification

## Patient Information

Element	Data
Name	Unspecified
Sex	Male
Race1	White
Ethnic Group	Hispanic or Latino
City	Columbus
State	Ohio
Zip Code	43058
Country	UNITED STATES
County/Parish Code	Worthington

## Visit Information

Element	Data
Admit or Encounter Reason	Removal of coronary artery obstruction, and stent insertions
Admit Date and Time	08/17/2015 2:00 PM
Patient Class	
Diagnosis Type	Working
Diagnosis	Atherosclerotic heart disease of native coronary artery without angina pectoris
Diagnosis	Angina pectoris, unspecified
Diagnosis	Chest Pain

## Observations[\*]

### Observation Results Information

Element	Data
Observation Identifier	Treating Facility Identifier
Observation Value	MountainviewGeneral 1231231236 NPI
Units	
Observation Results Status	Final results; Can only be changed with a corrected result.

## Observation Results Information

Element	Data
Observation Identifier	Facility / Visit Type
Observation Value	261QP2300X Primary Care HCPTNUCC
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. TS-2 Discharge-A03

### Patient Discharged from Hospital to Home

#### Test Story

##### Description

At 9:00 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 04 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. ICD-10 diagnosis codes are acceptable with or without decimals.

##### Pre Condition

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

##### Post Condition

No PostCondition

##### Test Objectives

This test case examines a Health IT Module's ability to create ADT A04-Discharge message within PHIN Messaging Guide's conformance requirements.

##### Evaluation Criteria

No evaluation criteria

##### Notes for Testers

An ICD-10 CM code is used for coding the working diagnosis. The Tester may ignore

errors generated by the Test Tool related to incorrect code when the ICD-10 code used in the message is determined to be a valid code.

## 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	
MSH-4.2	Universal ID	1231231236	
MSH-4.3	Universal ID Type	NPI	
MSH-7	Date/Time Of Message		
MSH-7.1	Time	201002010830	Presence-Content Indifferent
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-Configuration
MSH-11	Processing ID		
MSH-11.1	Processing ID	P	
MSH-12	Version ID		
MSH-12.1	Version ID	2.5.1	Value-Profile Fixed
MSH-15	Accept Acknowledgment Type		
MSH-16	Application Acknowledgment Type		
MSH-21	Message Profile Identifier		
MSH-21.1	Entity Identifier	PH_SS-NoAck	Value-Test Case Fixed
MSH-21.2	Namespace ID	SS Sender	Value-Test Case 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	
EVN-7	Event Facility		
EVN-7.1	Namespace ID	MountainviewGeneral	
EVN-7.2	Universal ID	1231231236	
EVN-7.3	Universal ID Type	NPI	



## PID : Patient Identification

Location	Data Element	Data	Categorization
PID-1	Set ID - PID	1	
PID-3	Patient Identifier List		
PID-3.1	ID Number	3333	
PID-3.4	Assigning Authority		
PID-3.4.1	Namespace ID		
PID-3.4.2	Universal ID		
PID-3.4.3	Universal ID Type		
PID-5[1]	Patient Name		
PID-5[1].7	Name Type Code		
PID-5[2]	Patient Name		
PID-5[2].7	Name Type Code	U	
PID-8	Administrative Sex	M	
PID-10	Race		
PID-10.1	Identifier	2106-3	
PID-10.2	Text	White	
PID-10.3	Name of Coding System	CDCREC	
PID-10.6	Name of Alternate Coding System		
PID-11	Patient Address		
PID-11.3	City	Columbus	
PID-11.4	State or Province	39	
PID-11.5	Zip or Postal Code	43058	
PID-11.6	Country	USA	
PID-11.9	County/Parish Code	Worthington	
PID-22	Ethnic Group		
PID-22.1	Identifier	2135-2	
PID-22.2	Text	Hispanic or Latino	
PID-22.3	Name of Coding System	CDCREC	
PID-22.6	Name of Alternate Coding System		
PID-29	Patient Death Date and Time		
PID-29.1	Time		
PID-30	Patient Death Indicator		

## PV1 : Patient Visit

Location	Data Element	Data	Categorization
PV1-1	Set ID - PV1	1	
PV1-2	Patient Class		
PV1-19	Visit Number		
PV1-19.1	ID Number	3333_001	
PV1-19.4	Assigning Authority		
PV1-19.4.1	Namespace ID		
PV1-19.4.2	Universal ID		
PV1-19.4.3	Universal ID Type		
PV1-36	Discharge Disposition	01	
PV1-44	Admit Date/Time		
PV1-44.1	Time	201508181200	
PV1-45	Discharge Date/Time		
PV1-45.1	Time		

## PV2 : Patient Visit - Additional Information

Location	Data Element	Data	Categorization
PV2-3	Admit Reason		
PV2-3.1	Identifier	z95.5	
PV2-3.2	Text	Removal of coronary artery obstruction, and stent insertions	
PV2-3.3	Name of Coding System	I10	
PV2-3.6	Name of Alternate Coding System		

## DG1[\*]

### DG1 : Diagnosis

Location	Data Element	Data	Categorization
DG1-1	Set ID - DG1	1	
DG1-3	Diagnosis Code - DG1		
DG1-3.1	Identifier	I250	
DG1-3.2	Text	Atherosclerosis	
DG1-3.3	Name of Coding System	I10	
DG1-6	Diagnosis Type	F	

### DG1 : Diagnosis

## DG1 . Diagnosis

Location	Data Element	Data	Categorization
DG1-1	Set ID - DG1	2	
DG1-3	Diagnosis Code - DG1		
DG1-3.1	Identifier	I499	
DG1-3.2	Text	Arrhythmia	
DG1-3.3	Name of Coding System	I10	
DG1-6	Diagnosis Type	F	

## OBX[\*]

### OBX: Observation/Result

Location	Data Element	Data	Categorization
OBX-1	Set ID - OBX	1	
OBX-2	Value Type	HD	
OBX-3	Observation Identifier		
OBX-3.1	Identifier	SS001	
OBX-3.2	Text	TREATING FACILITY IDENTIFIER	
OBX-3.3	Name of Coding System	PHINQUESTION	
OBX-3.6	Name of Alternate Coding System		
OBX-5	Observation Value		
OBX-5.1	Namespace ID	MountainviewGeneral	
OBX-5.2	Universal ID	1231231236	
OBX-5.3	Universal ID Type	NPI	
OBX-6	Units		
OBX-6.1	Identifier		
OBX-6.2	Text		
OBX-6.3	Name of Coding System		
OBX-6.6	Name of Alternate Coding System		
OBX-11	Observation Result Status	F	

## OBX: Observation/Result

Location	Data Element	Data	Categorization
OBX-1	Set ID - OBX	2	
OBX-2	Value Type	CWE	
OBX-3	Observation Identifier		
OBX-3.1	Identifier	SS003	
OBX-3.2	Text	FACILITY/VISIT TYPE	
OBX-3.3	Name of Coding System	PHINQUESTION	
OBX-3.6	Name of Alternate Coding System		
OBX-5	Observation Value		
OBX-5.1	Identifier	261QP2300X	
OBX-5.2	Text	Primary Care	
OBX-5.3	Name of Coding System	HCPTNUCC	
OBX-5.6	Name of Alternate Coding System		
OBX-5.9	Original Text		
OBX-6	Units		
OBX-6.1	Identifier		
OBX-6.2	Text		
OBX-6.3	Name of Coding System		
OBX-6.6	Name of Alternate Coding System		
OBX-11	Observation Result Status	F	

## OBX: Observation/Result

Location	Data Element	Data	Categorization
OBX-1	Set ID - OBX	3	
OBX-2	Value Type	NM	
OBX-3	Observation Identifier		
OBX-3.1	Identifier	21612-7	
OBX-3.2	Text		
OBX-3.3	Name of Coding System	LN	
OBX-3.6	Name of Alternate Coding System		
OBX-5	Observation Value	51	
OBX-6	Units		
OBX-6.1	Identifier	a	
OBX-6.2	Text	year	
OBX-6.3	Name of Coding System	UCUM	
OBX-6.6	Name of Alternate Coding System		
OBX-11	Observation Result Status	F	

## OBX: Observation/Result

Location	Data Element	Data	Categorization
OBX-1	Set ID - OBX	4	
OBX-2	Value Type	NM	
OBX-3	Observation Identifier		
OBX-3.1	Identifier	8302-2	
OBX-3.2	Text		
OBX-3.3	Name of Coding System	LN	
OBX-3.6	Name of Alternate Coding System		
OBX-5	Observation Value	72	
OBX-6	Units		
OBX-6.1	Identifier	[in_us]	
OBX-6.2	Text	inch	
OBX-6.3	Name of Coding System	UCUM	
OBX-6.6	Name of Alternate Coding System		
OBX-11	Observation Result Status	F	

## OBX: Observation/Result

Location	Data Element	Data	Categorization
OBX-1	Set ID - OBX	5	
OBX-2	Value Type	NM	
OBX-3	Observation Identifier		
OBX-3.1	Identifier	3141-9	
OBX-3.2	Text		
OBX-3.3	Name of Coding System	LN	
OBX-3.6	Name of Alternate Coding System		
OBX-5	Observation Value	235	
OBX-6	Units		
OBX-6.1	Identifier	[lb_av]	
OBX-6.2	Text	pound	
OBX-6.3	Name of Coding System	UCUM	
OBX-6.6	Name of Alternate Coding System		
OBX-11	Observation Result Status	F	

## OBX: Observation/Result

Location	Data Element	Data	Categorization
OBX-1	Set ID - OBX	6	
OBX-2	Value Type	CWE	
OBX-3	Observation Identifier		
OBX-3.1	Identifier	72166-2	
OBX-3.2	Text		
OBX-3.3	Name of Coding System	LN	
OBX-3.6	Name of Alternate Coding System		
OBX-5	Observation Value		
OBX-5.1	Identifier	428061000124105	
OBX-5.2	Text	Current Light tobacco smoker	
OBX-5.3	Name of Coding System	SCT	
OBX-5.6	Name of Alternate Coding System		
OBX-5.9	Original Text		
OBX-6	Units		
OBX-6.1	Identifier		
OBX-6.2	Text		
OBX-6.3	Name of Coding System		
OBX-6.6	Name of Alternate Coding System		
OBX-11	Observation Result Status	F	

## Test Data Specification

## Patient Information

Element	Data
Name	Unspecified
Sex	Male
Race1	White
Ethnic Group	Hispanic or Latino
City	Columbus
State	Ohio
Zip Code	43058
Country	UNITED STATES
County/Parish Code	Worthington
Patient Death Date and Time	
Patient Death Indicator	

## Visit Information

Element	Data
Admit or Encounter Reason	Removal of coronary artery obstruction, and stent insertions
Admit Date and Time	08/18/2015 12:00
Patient Class	
Discharge Disposition	Discharged to home or self care (routine discharge)
Discharge Date/Time	
Diagnosis Type	Final
Diagnosis	Atherosclerosis
Diagnosis	Arrhythmia

## Observations[\*]

### Observation Results Information

Element	Data
Observation Identifier	Treating Facility Identifier
Observation Value	MountainviewGeneral 1231231236 NPI
Units	
Observation Results Status	Final results; Can only be changed with a corrected result.



## Observation Results Information

Element	Data
Observation Identifier	Facility / Visit Type
Observation Value	261QP2300X Primary Care HCPTNUCC
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.

