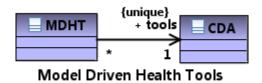
Implementation Guide for CDA Release 2 Tularemia PHCR CDA R2 Optional Subtitle



PROTOTYPE: FOR DISCUSSION AND DEMONSTRATION USE ONLY



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Revision History

Rev	Date	By Whom	Changes
New	July 2010	Dave Carlson	
First draft for posting	December 2010	Dave Carlson	Updated model content and publication format



1

INTRODUCTION

Topics:

- Overview
- Approach
- Scope
- Audience
- Organization of This Guide
- Use of Templates
- Conventions Used in This Guide

Overview

This implementation guide is generated from UML models developed in the Open Health Tools (OHT) Model-Driven Health Tools (MDHT) project. The data specifications have been formalized into computational models expressed in UML. These models are used by automated tooling to generate this publication, plus validation tools and Java libraries for implementers.

Approach

Working with specifications generated from formal UML models provides the opportunity to work with the data from the perspective of the underlying model and electronic format and to explore many design issues thoroughly. Taking this as an initial step ensures that the data set developers and standards community can reach consensus prior to the larger commitment of time that would be required to bring the full data set into standard format.

This project supports reusability and ease of data collection through a standard data representation harmonized with work developed through Health Information Technology Expert Panel (HITEP), balloted through Health Level Seven (HL7) and/or recognized by the Health Information Technology Standards Panel (HITSP).

This implementation guide (IG) specifies a standard for electronic submission of NCRs in a Clinical Document Architecture (CDA), Release 2 format.

Scope

TODO: scope of this implementation guide.

Audience

The audience for this document includes software developers and implementers who wish to develop...

Organization of This Guide

The requirements as laid out in the body of this document are subject to change per the policy on implementation guides (see section 13.02" Draft Standard for Trial Use Documents" within the HL7 Governance and Operations Manual, http://www.hl7.org/documentcenter/public/membership/HL7_Governance_and_Operations_Manual.pdf).

Templates

Templates are organized by document (see Document Templates), by section (see Section Templates), and by clinical statements (see Clinical Statement Templates). Within a section, templates are arranged hierarchically, where a more specific template is nested under the more generic template that it conforms to. See Templates by Containment for a listing of the higher level templates by containment; the appendix Templates Used in This Guide includes a table of all of the templates Organized Hierarchically.

Vocabulary and Value Sets

Vocabularies recommended in this guide are from standard vocabularies. When SNOMED codes are used, rules defined in Using SNOMED CT in HL7 Version 3 are adhered to. In many cases, these vocabularies are further constrained into value sets for use within this guide. Value set names and OIDs are summarized in the table Summary of Value Sets. Each named value set in this summary table is stored in a template database that will be maintained by CHCA.

Use of Templates

When valued in an instance, the template identifier (templateId) signals the imposition of a set of template-defined constraints. The value of this attribute provides a unique identifier for the templates in question.

Originator Responsibilities

An originator can apply a templateId to assert conformance with a particular template.

In the most general forms of CDA exchange, an originator need not apply a templateId for every template that an object in an instance document conforms to. This implementation guide asserts when templateIds are required for conformance.

Recipient Responsibilities

A recipient may reject an instance that does not contain a particular templateId (e.g., a recipient looking to receive only CCD documents can reject an instance without the appropriate templateId).

A recipient may process objects in an instance document that do not contain a templateId (e.g., a recipient can process entries that contain Observation acts within a Problems section, even if the entries do not have templateIds).

Conventions Used in This Guide

Conformance Requirements

Conformance statements are grouped and identified by the name of the template, along with the templateId and the context of the template (e.g., ClinicalDocument, section, observation), which specifies the element under constraint. If a template is a specialization of another template, its first constraint indicates the more general template. In all cases where a more specific template conforms to a more general template, asserting the more specific template also implies conformance to the more general template. An example is shown below.

Template name

```
[<type of template>: templateId <XXXX.XXX.XXX.XXX>]
```

Description of the template will be here

- 1. Conforms to <The template name> Template (templateId: XXXX<XX>XXX>YYY).
- **2. SHALL** contain [1..1] @classCode = <AAA> <code display name> (CodeSystem: 123.456.789 <XXX> Class) **STATIC** (CONF:<number>).
- **3.**

Figure 1: Template name and "conforms to" appearance

The conformance verb keyword at the start of a constraint (SHALL, SHOULD, MAY, etc.) indicates business conformance, whereas the cardinality indicator (0..1, 1..1, 1..*, etc.) specifies the allowable occurrences within an instance. Thus, "MAY contain 0..1" and "SHOULD contain 0..1" both allow for a document to omit the particular component, but the latter is a stronger recommendation that the component be included if it is known.

The following cardinality indicators may be interpreted as follows:

- 0...1 as zero to one present
- 1..1 as one and only one present
- 2..2 as two must be present
- 1..* as one or more present
- 0..* as zero to many present

Value set bindings adhere to HL7 Vocabulary Working Group best practices, and include both a conformance verb (SHALL, SHOULD, MAY, etc.) and an indication of DYNAMIC vs. STATIC binding. The use of SHALL requires that the component be valued with a member from the cited value set; however, in every case any HL7 "null" value such as other (OTH) or unknown (UNK) may be used.

Each constraint is uniquely identified (e.g., "CONF:605") by an identifier placed at or near the end of the constraint. These identifiers are not sequential as they are based on the order of creation of the constraint.

- 1. SHALL contain [1..1] component/structuredBody (CONF:4082).
 - a. This component/structuredBody SHOULD contain [0..1] component (CONF:4130) such that it
 - **a. SHALL** contain [1..1] Reporting Parameters section (templateId:2.16.840.1.113883.10.20.17.2.1) (CONF:4131).
 - b. This component/structuredBody SHALL contain [1..1] component (CONF:4132) such that it
 - **a. SHALL** contain [1..1] Patient data section NCR (templateId:2.16.840.1.113883.10.20.17.2.5) (CONF:4133).

Figure 2: Template-based conformance statements example

CCD templates are included within this implementation guide for ease of reference. CCD templates contained within this implementation guide are formatted WITHOUT typical **KEYWORD** and **XML** element styles. A WIKI site is available if you would like to make a comment to be considered for the next release of CCD: http://wiki.hl7.org/index.php?title=CCD_Suggested_Enhancements The user name and password are: wiki/wikiwiki. You will need to create an account to edit the page and add your suggestion.

- 1. The value for "Observation / @moodCode" in a problem observation SHALL be "EVN" 2.16.840.1.113883.5.1001 ActMood STATIC. (CONF: 814).
- 2. A problem observation SHALL include exactly one Observation / statusCode. (CONF: 815).
- **3.** The value for "Observation / statusCode" in a problem observation SHALL be "completed" 2.16.840.1.113883.5.14 ActStatus STATIC. (CONF: 816).
- **4.** A problem observation SHOULD contain exactly one Observation / effectiveTime, to indicate the biological timing of condition (e.g. the time the condition started, the onset of the illness or symptom, the duration of a condition). (CONF: 817).

Figure 3: CCD conformance statements example

Keywords

The keywords SHALL, SHALL NOT, SHOULD, SHOULD NOT, MAY, and NEED NOT in this document are to be interpreted as described in the *HL7 Version 3 Publishing Facilitator's Guide*:

- SHALL: an absolute requirement
- SHALL NOT: an absolute prohibition against inclusion
- SHOULD/SHOULD NOT: valid reasons to include or ignore a particular item, but must be understood and carefully weighed
- MAY/NEED NOT: truly optional; can be included or omitted as the author decides with no implications

XML Examples

XML samples appear in various figures in this document in a fixed-width font. Portions of the XML content may be omitted from the content for brevity, marked by an ellipsis (...) as shown in the example below.

```
<ClinicalDocument xmlns='urn:h17-org:v3'>
...
</ClinicalDocument>
```

Figure 4: ClinicalDocument example

XPath expressions are used in the narrative and conformance requirements to identify elements because they are familiar to many XML implementers.

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DOCUMENT TEMPLATES

Topics:

• Tularemia Case Report

This section contains the document level constraints for CDA documents that are compliant with this implementation guide.

Tularemia Case Report

[ClinicalDocument: templateId 2.16.840.1.113883.10.20.15.1.4]

- **1. SHALL** conform to *PHCR Public Health Case Report* template (templateId: 2.16.840.1.113883.10.20.15)
- 2. SHALL contain exactly one [1..1] title = "Public Health Case Report Tularemia" (CONF:1840)
- 3. SHOULD contain zero or one [0..1] component (CONF:1842, CONF:1843), such that
 - **a.** Contains exactly one [1..1] *Tularemia PHCR Social History Section* (templateId: 2.16.840.1.113883.10.20.15.2.18)
- 4. SHALL contain exactly one [1..1] component (CONF:1844, CONF:1845), such that
 - **a.** Contains exactly one [1..1] *Tularemia PHCR Clinical Information Section* (templateId: 2.16.840.1.113883.10.20.15.2.19)
- 5. SHOULD contain zero or one [0..1] component (CONF:1846, CONF:1847), such that
 - **a.** Contains exactly one [1..1] *Tularemia PHCR Treatment Information Section* (templateId: 2.16.840.1.113883.10.20.15.2.20)
- **6. SHOULD** contain zero or one [0..1] **component** (CONF:1848, CONF:1849), such that
 - **a.** Contains exactly one [1..1] *PHCR Phcr Encounters Section* (templateId: 2.16.840.1.113883.10.20.15.2.2)
- 7. SHOULD contain zero or one [0..1] component (CONF:1850, CONF:1851), such that
 - **a.** Contains exactly one [1..1] *Tularemia PHCR Relevant Dx Tests Section* (templateId: 2.16.840.1.113883.10.20.15.2.21)

Tularemia Case Report example

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SECTION TEMPLATES

Topics:

- Tularemia PHCR Clinical Information Section
- Tularemia PHCR Relevant Dx Tests Section
- Tularemia PHCR Social History Section
- Tularemia PHCR Treatment Information Section

Tularemia PHCR Clinical Information Section

[Section: templateId 2.16.840.1.113883.10.20.15.2.19]

- **1. SHALL** conform to *PHCR Phcr Clinical Information Section* template (templateId: 2.16.840.1.113883.10.20.15.2.1)
- 2. SHALL contain exactly one [1..1] entry (CONF:1718, CONF:1719), such that
 - a. Contains @typeCode="DRIV" DRIV (is derived from)
 - **b.** Contains exactly one [1..1] *Tularemia Case Observation* (templateId: 2.16.840.1.113883.10.20.15.3.46)

Tularemia PHCR Clinical Information Section example

Tularemia PHCR Relevant Dx Tests Section

[Section: templateId 2.16.840.1.113883.10.20.15.2.21]

- **1. SHALL** conform to *PHCR Phcr Relevant Dx Tests Section* template (templateId: 2.16.840.1.113883.10.20.15.2.3)
- 2. MAY contain zero or more [0..*] entry (CONF:1830), such that
 - a. Contains @typeCode="DRIV" DRIV (is derived from)
 - **b.** Contains exactly one [1..1] *Tularemia Result Organizer* (templateId: 2.16.840.1.113883.10.20.15.3.52)
- **3. SHOULD** contain zero or more [0..*] **entry** (CONF:1833), such that
 - a. Contains @typeCode="DRIV" DRIV (is derived from)
 - **b.** Contains exactly one [1..1] *Tularemia Result Observation* (templateId: 2.16.840.1.113883.10.20.15.3.51)
- **4. MAY** contain zero or more [0..*] **entry** (CONF:1836), such that
 - a. Contains @typeCode="DRIV" DRIV (is derived from)
 - **b.** Contains exactly one [1..1] *PHCR Imaging Observation* (templateId: 2.16.840.1.113883.10.20.15.3.5)

Tularemia PHCR Relevant Dx Tests Section example

Tularemia PHCR Social History Section

[Section: templateId 2.16.840.1.113883.10.20.15.2.18]

- **1. SHALL** conform to *PHCR Phcr Social History Section* template (templateId: 2.16.840.1.113883.10.20.15.2.22)
- 2. MAY contain zero or more [0..*] entry (CONF:1669, CONF:1670), such that
 - a. Contains @typeCode="DRIV" DRIV (is derived from)
 - **b.** Contains exactly one [1..1] *Tularemia Possible Exposure Location And Type Act* (templateId: 2.16.840.1.113883.10.20.15.3.43)

Tularemia PHCR Social History Section example

Tularemia PHCR Treatment Information Section

[Section: templateId 2.16.840.1.113883.10.20.15.2.20]

- **1. SHALL** conform to *PHCR Phcr Treatment Information Section* template (templateId: 2.16.840.1.113883.10.20.15.2.4)
- 2. SHALL contain exactly one [1..1] entry (CONF:1782, CONF:1783, CONF:1784), such that
 - a. Contains @typeCode="DRIV" DRIV (is derived from)
 - **b.** Contains exactly one [1..1] *Tularemia Therapeutic Regimen Act* (templateId: 2.16.840.1.113883.10.20.15.3.48)

Tularemia PHCR Treatment Information Section example

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CLINICAL STATEMENT TEMPLATES

Topics:

- Location Of Lesion Observation
- Tularemia Case Observation
- Tularemia Possible Exposure Location And Type Act
- Tularemia Result Observation
- Tularemia Result Organizer
- Tularemia Signs And Symptoms Observation
- Tularemia Therapeutic Regimen Act
- Tularemia Treatment Given Substance Administration
- Tularemia Treatment Not Given Substance Administration

This section of the Implementation Guide details the clinical statement entries referenced in the document section templates. The clinical statement entry templates are arranged alphabetically.

Location Of Lesion Observation

[Observation: templateId 2.16.840.1.113883.10.20.15.3.44]

- 1. SHALL contain exactly one [1..1] @classCode="OBS" Observation (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass) (CONF:1672)
- **2. SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:1673)
- 3. SHALL contain exactly one [1..1] code/@code="ASSERTION" (CodeSystem: 2.16.840.1.113883.5.4 HL7ActCode) (CONF:1675)
- **4. SHALL** contain exactly one [1..1] **statusCode/@code**="completed" (CodeSystem: 2.16.840.1.113883.5.14 ActStatus) (CONF:1676)
- 5. SHOULD contain zero or one [0..1] effectiveTime (CONF:1677)
- 6. SHALL contain exactly one [1..1] value, which SHALL be selected from ValueSet 2.16.840.1.114222.4.11.3215 Signs and Symptoms (Tularemia) DYNAMIC, where its data type is CD (CONF:1678)
- 7. SHALL contain at least one [1..*] targetSiteCode, which SHALL be selected from ValueSet 2.16.840.1.113883.3.88.12.3221.8.9 Body Site DYNAMIC (CONF:1679)

Location Of Lesion Observation example

Tularemia Case Observation

[Observation: templateId 2.16.840.1.113883.10.20.15.3.46]

- **1. SHALL** conform to *PHCR Case Observation* template (templateId: 2.16.840.1.113883.10.20.15.3.54)
- SHALL contain exactly one [1..1] value, which SHALL be selected from ValueSet
 2.16.840.1.114222.4.11.3223 Disease Type (Tularemia) DYNAMIC, where its data type is CD (CONF:1693)
- 3. SHALL contain zero or more [0..*] entryRelationship (CONF:1706, CONF:1708, CONF:1709), such that
 - a. Contains @typeCode="MFST" MFST (is manifestation of)
 - **b.** Contains exactly one [1..1] *Tularemia Signs And Symptoms Observation* (templateId: 2.16.840.1.113883.10.20.15.3.45)
- **4. MAY** contain zero or more [0..*] **entryRelationship** (CONF:1710), such that
 - a. Contains @typeCode="MFST" MFST (is manifestation of)
 - **b.** Contains exactly one [1..1] *Location Of Lesion Observation* (templateId: 2.16.840.1.113883.10.20.15.3.44)

Tularemia Case Observation example

Tularemia Possible Exposure Location And Type Act

 $[Act: template Id\ 2.16.840.1.113883.10.20.15.3.43]$

- 1. SHALL contain exactly one [1..1] @classCode="ACT" Act (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass) (CONF:1617)
- 2. SHALL contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:1618)

- **3. SHALL** contain exactly one [1..1] **code/@code=** "413350009" *Finding with explicit context* (CodeSystem: 2.16.840.1.113883.6.96 SNOMEDCT) (CONF:1619)
- **4. SHALL** contain exactly one [1..1] **statusCode/@code**="completed" (CodeSystem: 2.16.840.1.113883.5.14 ActStatus) (CONF:1626)
- 5. SHALL contain [1..1] qualifier, SHALL contain [1..1] name/@code="246090004" Associated finding (CodeSystem: 2.16.840.1.113883.6.96 SNOMEDCT) STATIC, SHALL contain [1..1] value/@code="PHC818" Tularemia exposure (CodeSystem: 2.16.840.1.114222.4.5.274 PHIN VADS code system) STATIC (CONF:1620)
- 6. SHALL contain [1..1] qualifier, which SHALL contain [1..1] name/@code="408729009" Finding context (CodeSystem: 2.16.840.1.113883.6.96 SNOMEDCT) STATIC, SHALL contain [1..1] value/ @code="410590009" Known possible (CodeSystem: 2.16.840.1.113883.6.96 SNOMEDCT) STATIC (CONF:1623)
- **7. SHALL** contain [1..*] participant, which **SHALL** contain [1..1] @typeCode="LOC" Location (CodeSystem: 2.16.840.1.113883.5.90 HL7ParticipationType) STATIC (CONF:1627)
- **8. MAY** contain [0..*] participant, which if present **SHALL** contain [1..1] @typeCode="DIR" Direct target (CodeSystem: 2.16.840.1.113883.5.90 HL7ParticipationType) STATIC (CONF:1637)
- **9. MAY** contain [0..*] participant, which if present **SHALL** contain [1..1] @typeCode="DIR" Direct target (CodeSystem: 2.16.840.1.113883.5.90 HL7ParticipationType) STATIC (CONF:1645)

Tularemia Possible Exposure Location And Type Act example

Tularemia Result Observation

[Observation: templateId 2.16.840.1.113883.10.20.15.3.51]

- **1. SHALL** conform to *PHCR Result Observation* template (templateId: 2.16.840.1.113883.10.20.15.3.58)
- SHALL contain exactly one [1..1] code, which SHALL be selected from ValueSet
 2.16.840.1.114222.4.11.3208 Lab Test Result Name (Tularemia) DYNAMIC (CONF:1788)

Tularemia Result Observation example

Tularemia Result Organizer

[Organizer: templateId 2.16.840.1.113883.10.20.15.3.52]

- **1. SHALL** conform to *PHCR Result Organizer* template (templateId: 2.16.840.1.113883.10.20.15.3.59)
- 2. SHALL contain at least one [1..*] component (CONF:1825, CONF:1826), such that
 - **a.** Contains exactly one [1..1] *Tularemia Result Observation* (templateId: 2.16.840.1.113883.10.20.15.3.51)
- 3. SHALL contain exactly one [1..1] code, which SHALL be selected from ValueSet 2.16.840.1.114222.4.11.3208 Lab Test Result Name (Tularemia) DYNAMIC (CONF:1877)

Tularemia Result Organizer example

Tularemia Signs And Symptoms Observation

[Observation: templateId 2.16.840.1.113883.10.20.15.3.45]

- **1. SHALL** conform to *PHCR Signs And Symptoms Observation* template (templateId: 2.16.840.1.113883.10.20.15.3.53)
- SHALL contain exactly one [1..1] value, which SHALL be selected from ValueSet
 2.16.840.1.114222.4.11.3215 Signs and Symptoms (Tularemia) DYNAMIC, where its data type is CD (CONF:1686)

Tularemia Signs And Symptoms Observation example

Tularemia Therapeutic Regimen Act

[Act: templateId 2.16.840.1.113883.10.20.15.3.48]

- **1. SHALL** conform to *PHCR Therapeutic Regimen Act* template (templateId: 2.16.840.1.113883.10.20.15.3.57)
- 2. SHOULD contain zero or more [0..*] entryRelationship (CONF:1753, CONF:1754, CONF:1755), such that
 - a. Contains @typeCode="COMP" COMP (has component)
 - **b.** Contains exactly one [1..1] *Tularemia Treatment Given Substance Administration* (templateId: 2.16.840.1.113883.10.20.15.3.47)
- 3. MAY contain zero or more [0..*] entryRelationship (CONF:1778, CONF:1779, CONF:1790), such that
 - a. Contains @typeCode="COMP" COMP (has component)
 - **b.** Contains exactly one [1..1] *Tularemia Treatment Not Given Substance Administration* (templateId: 2.16.840.1.113883.10.20.15.3.50)
- **4. SHALL** contain [1..1] entryRelationship, which **SHALL** contain [1..1] @typeCode="REFR" Refers to (CodeSystem: 2.16.840.1.113883.5.1002 HL7ActRelationshipType) STATIC, **SHALL** contain [1..1] observation (CONF:1745)

Tularemia Therapeutic Regimen Act example

Tularemia Treatment Given Substance Administration

[SubstanceAdministration: templateId 2.16.840.1.113883.10.20.15.3.47]

- **1. SHALL** conform to *PHCR Treatment Given Substance Administration* template (templateId: 2.16.840.1.113883.10.20.15.3.55)
- 2. SHALL contain [1..1] consumable, SHALL contain [1..1] manufacturedProduct, SHALL contain [1..1] manufacturedMaterial, which SHALL contain [1..1] code/@code, which SHALL be selected from ValueSet 2.16.840.1.114222.4.11.3217 Medication Treatment (Tularemia) (CONF:1736)

Tularemia Treatment Given Substance Administration example

Tularemia Treatment Not Given Substance Administration

[SubstanceAdministration: templateId 2.16.840.1.113883.10.20.15.3.50]

- **1. SHALL** conform to *PHCR Treatment Not Given Substance Administration* template (templateId: 2.16.840.1.113883.10.20.15.3.56)
- 2. SHALL contain [1..1] consumable, SHALL contain [1..1] manufacturedProduct, SHALL contain [1..1] manufacturedMaterial, which SHALL contain [1..1] code/@code, which SHALL be selected from ValueSet 2.16.840.1.114222.4.11.3217 Medication Treatment (Tularemia) (CONF:1770)

Tularemia Treatment Not Given Substance Administration example

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OTHER CLASSES

This section of the Implementation Guide describes other classes that are not CDA Clinical Documents, Sections, or Clinical Statements.



VALUE SETS

Topics:

- Animal
- Disease Type (Tularemia)
- Lab Test Result Name (Tularemia)
- Material Exposure Type
- Medication Treatment (Tularemia)
- Signs and Symptoms (Tularemia)

The following tables summarize the value sets used in this Implementation Guide.

Animal

Value Set	Animal - 2.16.840.1.114222.4.11.1074	
Source	PHIN VADS	
Source URL	https://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.1074	
Definition	Animal Keyword: Animal Type based on SNOMED domain (387961004)	

Disease Type (Tularemia)

Value Set	Disease Type (Tularemia) - 2.16.840.1.114222.4.11.3223
Source	PHIN VADS
Source URL	https://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.3223
Definition	Tularemia disease type value set has problems or disease related to Tularemia. This value set is based upon SNOMED CT.

Concept Code	Concept Name	Code System	Description
186293006	Cryptogenic tularemia	SNOMEDCT	
398599000	Enteric tularemia	SNOMEDCT	
34023009	Generalized tularemia	SNOMEDCT	
21857006	Glandular tularemia	SNOMEDCT	
73363000	Oculoglandular tularemia	SNOMEDCT	
398575000	Oropharyngeal tularemia	SNOMEDCT	
45556008	Pulmonary tularemia	SNOMEDCT	
19265001	Tularemia	SNOMEDCT	
398554008	Typhoidal tularemia	SNOMEDCT	
37722001	Ulceroglandular tularemia	SNOMEDCT	

Lab Test Result Name (Tularemia)

Value Set	Lab Test Result Name (Tularemia) - 2.16.840.1.114222.4.11.3208
Code System	LOINC - 2.16.840.1.113883.6.1
Source	PHIN VADS
Source URL	https://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.3208
Definition	Tularemia lab test result name value set is based upon the Lab LOINC concepts that are defined in the CSTE standardized reporting definition for Tularemia.

Material Exposure Type

Value Set	Material Exposure Type - 2.16.840.1.114222.4.11.3211	
Source	PHIN VADS	
Source URL	https://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.3211	
Definition	Types of exposure related to material such as suspicious mail and powder including animal material. This value set is primarily based upon SNOMED CT Material (260769002) hierarchy.	

Medication Treatment (Tularemia)

Value Set	Medication Treatment (Tularemia) - 2.16.840.1.114222.4.11.3217	
Source	PHIN VADS	
Source URL	https://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.3217	
Definition	Tularemia treatment value set has medication concepts used to treat tularemia.	

Signs and Symptoms (Tularemia)

Value Set	Signs and Symptoms (Tularemia) - 2.16.840.1.114222.4.11.3215
Source	PHIN VADS
Source URL	https://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.3215
Definition	Tularemia Signs and Symptoms value set is primarily based upon the SNOMED concepts that are defined in the CSTE standardized reporting definition for Anthrax

Concept Code	Concept Name	Code System	Description
21522001	Abdominal pain	SNOMEDCT	
84387000	Asymptomatic	SNOMEDCT	
29857009	Chest pain	SNOMEDCT	
43724002	Chill	SNOMEDCT	
9826008	Conjunctivitis	SNOMEDCT	
49727002	Cough	SNOMEDCT	
62315008	Diarrhea	SNOMEDCT	
267036007	Dyspnea	SNOMEDCT	
386661006	Fever		
25064002	Headache	SNOMEDCT	
57676002	Joint pain	SNOMEDCT	
30746006	Lymphadenopathy	SNOMEDCT	
367391008	Malaise	SNOMEDCT	

Concept Code	Concept Name	Code System	Description
7180009	Meningitis	SNOMEDCT	
68962001	Muscle pain	SNOMEDCT	
422587007	Nausea	SNOMEDCT	
162397003	Pain in throat	SNOMEDCT	
405737000	Pharyngitis	SNOMEDCT	
233604007	Pneumonia	SNOMEDCT	
46742003	Skin ulcer	SNOMEDCT	
270031000	Sputum: contains blood	SNOMEDCT	
91302008	Systemic infection	SNOMEDCT	
422400008	Vomiting	SNOMEDCT	
89362005	Weight loss finding	SNOMEDCT	

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