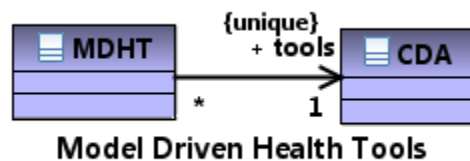


# Implementation Guide for CDA Release 2

## Streptococcus pneumoniae

### Case Report CDA R2

#### Optional Subtitle



**PROTOTYPE: FOR DISCUSSION  
AND DEMONSTRATION USE ONLY**



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# Acknowledgments

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This document contains an example of healthcare standards and specifications publication generated from UML models, using the OHT Model Driven Health Tools (MDHT). Some portions of this document may not be publicly available but are included for demonstration purposes only, therefore this version of the document is to be treated as CONFIDENTIAL by the project participants.

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## Revision History

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





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# Chapter 1

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## INTRODUCTION

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### 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

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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

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TODO: scope of this implementation guide.

## Audience

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

## Organization of This Guide

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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](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

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### 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.XX.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](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:hl7-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.

---

# Chapter

# 2

---

## DOCUMENT TEMPLATES

---

### Topics:

- [Strep Pneumo Case Report](#)

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

## Strep Pneumo Case Report

---

[ClinicalDocument: templateId 2.16.840.1.113883.10.20.15.1.12]

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 - Streptococcus pneumoniae"
3. **SHALL** contain exactly one [1..1] **component**, such that
  - a. Contains exactly one [1..1] *Strep Pneumo PHCR Clinical Information Section* (templateId: 2.16.840.1.113883.10.20.15.2.55)
4. **SHOULD** contain zero or one [0..1] **component**, such that
  - a. Contains exactly one [1..1] *Strep Pneumo PHCR Treatment Information Section* (templateId: 2.16.840.1.113883.10.20.15.2.53)
5. **SHOULD** contain zero or one [0..1] **component**, such that
  - a. Contains exactly one [1..1] *Strep Pneumo Relevant Diagnostic Tests And Or Laboratory Data Section* (templateId: 2.16.840.1.113883.10.20.15.2.56)
6. **SHOULD** contain zero or more [0..\*] **component**, such that
  - a. Contains exactly one [1..1] *Strep Pneumo Social History Section* (templateId: 2.16.840.1.113883.10.20.15.2.54)
7. **SHOULD** contain zero or one [0..1] **component**, such that
  - a. Contains exactly one [1..1] *Strep Pneumo Immunization Section* (templateId: 2.16.840.1.113883.10.20.15.2.52)

### Strep Pneumo Case Report example

---

# Chapter

# 3

---

## SECTION TEMPLATES

---

### Topics:

- *Strep Pneumo Immunization Section*
- *Strep Pneumo PHCR Clinical Information Section*
- *Strep Pneumo PHCR Treatment Information Section*
- *Strep Pneumo Relevant Diagnostic Tests And Or Laboratory Data Section*
- *Strep Pneumo Social History Section*

## Strep Pneumo Immunization Section

---

[Section: templateId 2.16.840.1.113883.10.20.15.2.52]

1. **SHALL** conform to *CCD Immunizations Section* template (templateId: 2.16.840.1.113883.10.20.1.6)
2. **SHALL** contain at least one [1..\*] **entry**, such that
  - a. Contains @typeCode="DRIV" *DRIV (is derived from)*
  - b. Contains exactly one [1..1] *Strep Pneumo Immunization Activity* (templateId: 2.16.840.1.113883.10.20.15.3.124)

Strep Pneumo Immunization Section example

## Strep Pneumo PHCR Clinical Information Section

---

[Section: templateId 2.16.840.1.113883.10.20.15.2.55]

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**, such that
  - a. Contains @typeCode="DRIV" *DRIV (is derived from)*
  - b. Contains exactly one [1..1] *Strep Pneumo Case Observation* (templateId: 2.16.840.1.113883.10.20.15.3.125)

Strep Pneumo PHCR Clinical Information Section example

## Strep Pneumo PHCR Treatment Information Section

---

[Section: templateId 2.16.840.1.113883.10.20.15.2.53]

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**, such that
  - a. Contains @typeCode="DRIV" *DRIV (is derived from)*
  - b. Contains exactly one [1..1] *Strep Pneumo Therapeutic Regimen Act* (templateId: 2.16.840.1.113883.10.20.15.3.122)

Strep Pneumo PHCR Treatment Information Section example

## Strep Pneumo Relevant Diagnostic Tests And Or Laboratory Data Section

---

[Section: templateId 2.16.840.1.113883.10.20.15.2.56]

1. **SHALL** conform to *PHCR Phcr Relevant Dx Tests Section* template (templateId: 2.16.840.1.113883.10.20.15.2.3)
2. **SHOULD** contain zero or more [0..\*] **entry**, such that



- a. Contains **@typeCode="DRIV"** *DRIV (is derived from)*
- b. Contains exactly one [1..1] *Strep Pneumo Result Observation* (templateId: 2.16.840.1.113883.10.20.15.3.128)
- 3. **MAY** contain zero or more [0..\*] **entry**, such that
  - a. Contains **@typeCode="DRIV"** *DRIV (is derived from)*
  - b. Contains exactly one [1..1] *Strep Pneumo Result Organizer* (templateId: 2.16.840.1.113883.10.20.15.3.130)

#### Strep Pneumo Relevant Diagnostic Tests And Or Laboratory Data Section example

## Strep Pneumo Social History Section

---

[Section: templateId 2.16.840.1.113883.10.20.15.2.54]

- 1. **SHALL** conform to *PHCR Phcr Social History Section* template (templateId: 2.16.840.1.113883.10.20.15.2.22)
- 2. **SHOULD** contain zero or more [0..\*] **entry**, such that
  - a. Contains **@typeCode="DRIV"** *DRIV (is derived from)*
  - b. Contains exactly one [1..1] *Strep Pneumo Possible Exposure Location Act* (templateId: 2.16.840.1.113883.10.20.15.3.129)

#### Strep Pneumo Social History Section example



---

# Chapter

# 4

---

## CLINICAL STATEMENT TEMPLATES

---

### Topics:

- [\*Strep Pneumo Case Observation\*](#)
- [\*Strep Pneumo Immunization Activity\*](#)
- [\*Strep Pneumo Possible Exposure Location Act\*](#)
- [\*Strep Pneumo Result Observation\*](#)
- [\*Strep Pneumo Result Organizer\*](#)
- [\*Strep Pneumo Signs And Symptoms Observation\*](#)
- [\*Strep Pneumo Therapeutic Regimen Act\*](#)
- [\*Strep Pneumo Treatment Given Substance Administration\*](#)
- [\*Strep Pneumo 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.

## Strep Pneumo Case Observation

---

[Observation: templateId 2.16.840.1.113883.10.20.15.3.125]

1. **SHALL** conform to *PHCR Case Observation* template (templateId: 2.16.840.1.113883.10.20.15.3.54)
2. **SHALL** contain exactly one [1..1] **value**, which **SHALL** be selected from ValueSet 2.16.840.1.114222.4.11.6030 *PHVS\_DiseaseType\_StrepPneumo* DYNAMIC, where its data type is CD
3. **SHOULD** contain zero or more [0..\*] **entryRelationship**, such that
  - a. Contains **@typeCode="MFST"** *MFST (is manifestation of)*
  - b. Contains exactly one [1..1] *Strep Pneumo Signs And Symptoms Observation* (templateId: 2.16.840.1.113883.10.20.15.3.121)

### Strep Pneumo Case Observation example

## Strep Pneumo Immunization Activity

---

[SubstanceAdministration: templateId 2.16.840.1.113883.10.20.15.3.124]

1. **SHALL** conform to *CD Medication Activity* template (templateId: 2.16.840.1.113883.10.20.1.24)
2. **SHALL** contain [1..1] consumable, which a. **SHALL** contain [1..1] Streptococcus pneumoniae immunization product (templateId: 2.16.840.1.113883.10.20.15.3.123)

### Strep Pneumo Immunization Activity example

## Strep Pneumo Possible Exposure Location Act

---

[Act: templateId 2.16.840.1.113883.10.20.15.3.129]

1. **SHALL** contain exactly one [1..1] **@classCode="ACT"** *Act* (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass)
2. **SHALL** contain exactly one [1..1] **@moodCode="EVN"** *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood)
3. **SHALL** contain exactly one [1..1] **code/@code="413350009"** (CodeSystem: 2.16.840.1.113883.6.96 SNOMEDCT)
4. **SHALL** contain exactly one [1..1] **statusCode/@code="completed"** (CodeSystem: 2.16.840.1.113883.5.14 ActStatus)
5. 1, **SHALL** contain [1..\*] participant (specialized branch), which a. **SHALL** contain [1..1] **@typeCode="LOC"** Location (CodeSystem: 2.16.840.1.113883.5.90 HL7ParticipationType) STATIC b. **SHOULD** contain [0..1] time c. **SHALL** contain [1..1] participantRole, which i. **SHALL** contain [1..1] **@classCode="LOCE"** Located entity (CodeSystem: 2.16.840.1.113883.5.110 HL7RoleClass) STATIC ii. **SHOULD** contain [0..\*] addr iii. **SHOULD** contain [0..\*] telecom iv. **SHOULD** contain [0..1] playingEntity, which if present 1. **SHALL** contain [1..1] **@classCode="PLC"** Place (CodeSystem: 2.16.840.1.113883.5.41 HL7EntityClass) STATIC 2. **SHALL** contain [1..1] code/@code, which **SHALL** be selected from ValueSet 2.16.840.1.114222.4.11.3209 Exposure Location DYNAMIC

### Strep Pneumo Possible Exposure Location Act example

## Strep Pneumo Result Observation

---

[Observation: templateId 2.16.840.1.113883.10.20.15.3.128]

1. **SHALL** conform to *PHCR Result Observation* template (templateId: 2.16.840.1.113883.10.20.15.3.58)
2. **SHALL** contain exactly one [1..1] **code**, which **SHALL** be selected from ValueSet 2.16.840.1.114222.4.11.4208 *PHVS\_LabTestName\_StrepPneumo* DYNAMIC (CONF-412)
3. 9. **SHOULD** contain [0..1] specimen , which if present a. **SHALL** contain [1..1] specimenRole , which i. **SHOULD** contain [0..1] id ii. **MAY** contain [0..1] specimenPlayingEntity , which if present 1. **SHALL** contain [1..1] code/@code, which **SHALL** be selected from ValueSet 2.16.840.1.114222.4.11.3321 *PHVS\_SterileSpecimen\_IPD* DYNAMIC

Strep Pneumo Result Observation example

## Strep Pneumo Result Organizer

---

[Organizer: templateId 2.16.840.1.113883.10.20.15.3.130]

1. **SHALL** conform to *PHCR Result Organizer* template (templateId: 2.16.840.1.113883.10.20.15.3.59)
2. **SHALL** contain exactly one [1..1] **code**, which **SHALL** be selected from ValueSet 2.16.840.1.114222.4.11.4208 *PHVS\_LabTestName\_StrepPneumo* DYNAMIC (CONF-397, CONF:1999)
3. **SHALL** contain at least one [1..\*] **component**, such that
  - a. Contains exactly one [1..1] *Strep Pneumo Result Observation* (templateId: 2.16.840.1.113883.10.20.15.3.128)

Strep Pneumo Result Organizer example

## Strep Pneumo Signs And Symptoms Observation

---

[Observation: templateId 2.16.840.1.113883.10.20.15.3.121]

1. **SHALL** conform to *PHCR Signs And Symptoms Observation* template (templateId: 2.16.840.1.113883.10.20.15.3.53)
2. **SHALL** contain exactly one [1..1] **value**, which **SHALL** be selected from ValueSet 2.16.840.1.114222.4.11.6031 *PHVS\_SignsSymptoms\_StrepPneumo* DYNAMIC, where its data type is CD (CONF:1867)

Strep Pneumo Signs And Symptoms Observation example

## Strep Pneumo Therapeutic Regimen Act

---

[Act: templateId 2.16.840.1.113883.10.20.15.3.122]

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**, such that
  - a. Contains **@typeCode="COMP"** *COMP (has component)*
  - b. Contains exactly one [1..1] *Strep Pneumo Treatment Given Substance Administration* (templateId: 2.16.840.1.113883.10.20.15.3.126)
3. **MAY** contain zero or more [0..\*] **entryRelationship**, such that
  - a. Contains **@typeCode="COMP"** *COMP (has component)*
  - b. Contains exactly one [1..1] *Strep Pneumo Treatment Not Given Substance Administration* (templateId: 2.16.840.1.113883.10.20.15.3.127)
4. 7. **SHALL** contain [1..1] **entryRelationship** (specialized branch), which a. **SHALL** contain [1..1] **@typeCode="REFR"** Refers to (CodeSystem: 2.16.840.1.113883.5.1002 HL7ActRelationshipType) STATIC
  - b. **SHALL** contain [1..1] **observation**, which i. **SHALL** contain [1..1] **@classCode="OBS"** Observation (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass) STATIC ii. **SHALL** contain [1..1] **@moodCode="EVN"** Event (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) STATIC iii. **observation/id SHALL** be present, and **SHALL** equal Streptococcus pneumoniae case observation's observation/id . iv. **SHALL** contain [1..1] **code/@code="ASSERTION"** (CodeSystem: 2.16.840.1.113883.5.4 HL7ActCode) STATIC v. **SHALL** contain [1..1] **value/@code="406617004"** Invasive Streptococcus pneumoniae disease (CodeSystem: 2.16.840.1.113883.6.96 SNOMEDCT) STATIC

#### Strep Pneumo Therapeutic Regimen Act example

## Strep Pneumo Treatment Given Substance Administration

---

[SubstanceAdministration: templateId 2.16.840.1.113883.10.20.15.3.126]

1. **SHALL** conform to *PHCR Treatment Given Substance Administration* template (templateId: 2.16.840.1.113883.10.20.15.3.55)
2. 8. **SHALL** contain [1..1] **consumable**, which a. **SHALL** contain [1..1] **manufacturedProduct**, which i. **SHALL** contain [1..1] **manufacturedMaterial**, which 1. **SHALL** contain [1..1] **code/@code**, which **SHALL** be selected from ValueSet 2.16.840.1.114222.4.11.6033 PHVS\_MedicationTreatment\_StrepPneumo DYNAMIC ), which a. **SHOULD** contain [0..1] **originalText**

#### Strep Pneumo Treatment Given Substance Administration example

## Strep Pneumo Treatment Not Given Substance Administration

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[SubstanceAdministration: templateId 2.16.840.1.113883.10.20.15.3.127]

1. **SHALL** conform to *PHCR Treatment Not Given Substance Administration* template (templateId: 2.16.840.1.113883.10.20.15.3.56)
2. 6. **SHALL** contain [1..1] **consumable**, which a. **SHALL** contain [1..1] **manufacturedProduct**, which i. **SHALL** contain [1..1] **manufacturedMaterial** ), which 1. **SHALL** contain [1..1] **code/@code**, which **SHALL** be selected from ValueSet 2.16.840.1.114222.4.11.6033 PHVS\_MedicationTreatment\_StrepPneumo DYNAMIC ), which a. **SHOULD** contain [0..1] **originalText**

#### Strep Pneumo Treatment Not Given Substance Administration example

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## Chapter

# 5

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## OTHER CLASSES

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### Topics:

- [Strep Pneumo Immunization Product](#)

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

## Strep Pneumo Immunization Product

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[Product: templateId 2.16.840.1.113883.10.20.15.3.123]

1. 2. **SHALL** contain [1..1] manufacturedMaterial, which a. **SHALL** contain [1..1] code/@code, which **SHALL** be selected from ValueSet 2.16.840.1.114222.4.11.6032 PHVS\_VaccinesAdministered\_StrepPneumo DYNAMIC

**Strep Pneumo Immunization Product example**



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# Chapter

# 6

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## VALUE SETS

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**Topics:**

- [\*PHV S\\_ Disease Type\\_ Strep Pneumo\*](#)
- [\*PHV S\\_ Lab Test Name\\_ Strep Pneumo\*](#)
- [\*PHV S\\_ Medication Treatment\\_ Strep Pneumo\*](#)
- [\*PHV S\\_ Signs Symptoms\\_ Strep Pneumo\*](#)
- [\*PHV S\\_ Sterile Specimen\\_ IPD\*](#)
- [\*PHV S\\_ Vaccines Administered\\_ Strep Pneumo\*](#)

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

PHV S\_ Disease Type\_ Strep Pneumo

Value Set	PHVS_DiseaseType_StrepPneumo - 2.16.840.1.114222.4.11.6030
Source	PHIN-VADS
Source URL	<a href="http://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.6030">http://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.6030</a>
Definition	Streptococcus pneumoniae disease type value set has problems or disease related to Streptococcus pneumoniae, invasive disease. This value set is based upon SNOMED CT.

Concept Code	Concept Name	Code System	Description
167572006			
186379002			
186380004			
186381000			
19547001			
195886008			
206285007			
233607000			
266350000			
29577008			
29577008			
302809008			
310649002			
310668004			
34020007			
405633009			
405634003			
406595002			
406612005			
406616008			
406617004			
406618009			
409804001			
420787001			
423271002			
426933007			
428260000			

Concept Code	Concept Name	Code System	Description
440990006			
441942006			
444765007			
447331003			
447400006			
448418006			
448419003			
448420009			
448421008			
448422001			
449504009			
449900006			
4510004			
46970008			
47256006			
48397003			
51169003			
60837001			
64479007			
64912000			
74689003			
81638006			
90849005			

## PHV S\_ Lab Test Name\_ Strep Pneumo

Value Set	PHVS_LabTestName_StrepPneumo - 2.16.840.1.114222.4.11.4208
Source	PHIN-VADS
Source URL	<a href="https://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.4208">https://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.4208</a>
Definition	lab tests associated with Streptococcus pneumoniae

Concept Code	Concept Name	Code System	Description
10717-7			
10908-2			
11086-6			
13131-8			

Concept Code	Concept Name	Code System	Description
13132-6			
13133-4			
13134-2			
13135-9			
13136-7			
13137-5			
13138-3			
13139-1			
13140-9			
13141-7			
13142-5			
13143-3			
13144-1			
13145-8			
13146-6			
13147-4			
13148-2			
13149-0			
13150-8			
13151-6			
13152-4			
13153-2			
13154-0			
13155-7			
13156-5			
13157-3			
13158-1			
13159-9			
13160-7			
13161-5			
13162-3			
13163-1			
13165-6			
13166-4			
13167-2			

Concept Code	Concept Name	Code System	Description
13168-0			
14322-2			
17612-3			
17613-1			
17614-9			
17615-6			
17616-4			
17617-2			
17618-0			
17619-8			
17620-6			
17621-4			
17622-2			
17623-0			
17624-8			
17625-5			
17626-3			
17627-1			
17628-9			
17629-7			
17630-5			
17632-1			
17633-9			
17634-7			
17635-4			
17636-2			
17637-0			
17638-8			
17639-6			
17640-4			
17641-2			
17642-0			
17643-8			
17644-6			
17645-3			

Concept Code	Concept Name	Code System	Description
17646-1			
17647-9			
17648-7			
17649-5			
17650-3			
17651-1			
17652-9			
17653-7			
17654-5			
17655-2			
18346-7			
18347-5			
20489-1			
22541-7			
22542-5			
22543-3			
22544-1			
22545-8			
22546-6			
22547-4			
22548-2			
22549-0			
22550-8			
22551-6			
22552-4			
22553-2			
22554-0			
22555-7			
22556-5			
22557-3			
22558-1			
22559-9			
22560-7			
22561-5			
22562-3			

Concept Code	Concept Name	Code System	Description
22563-1			
22564-9			
22565-6			
22762-9			
24021-8			
24022-6			
24023-4			
24025-9			
24027-5			
25276-7			
25277-5			
25278-3			
25279-1			
25280-9			
25281-7			
25282-5			
25283-3			
25284-1			
25285-8			
25286-6			
25287-4			
25288-2			
25289-0			
25290-8			
25291-6			
25292-4			
25293-2			
25294-0			
25295-7			
25296-5			
25531-5			
26681-7			
26692-4			
26693-2			
26701-3			

Concept Code	Concept Name	Code System	Description
26754-2			
26755-9			
26875-5			
26876-3			
26917-5			
26939-9			
26941-5			
27092-6			
27094-2			
27096-7			
27113-0			
27118-9			
27119-7			
27120-5			
27121-3			
27126-2			
27128-8			
27138-7			
27139-5			
27141-1			
27142-9			
27143-7			
27144-5			
27145-2			
27146-0			
27147-8			
27148-6			
27150-2			
27151-0			
27152-8			
27153-6			
27154-4			
27155-1			
27156-9			
27157-7			



Concept Code	Concept Name	Code System	Description
27158-5			
27227-8			
27228-6			
27229-4			
27230-2			
27231-0			
27374-8			
27387-0			
27388-8			
27389-6			
27390-4			
27392-0			
27393-8			
27395-3			
27397-9			
27398-7			
27405-0			
27406-8			
27407-6			
27422-5			
27425-8			
27427-4			
27428-2			
27429-0			
27430-8			
27431-6			
27433-2			
27434-0			
27435-7			
27437-3			
27964-6			
28553-6			
29318-3			
29319-1			
29320-9			

Concept Code	Concept Name	Code System	Description
29360-5			
29361-3			
29362-1			
30153-1			
30488-1			
30489-9			
30490-7			
30491-5			
30492-3			
30493-1			
30494-9			
30495-6			
30496-4			
30497-2			
30498-0			
30499-8			
30501-1			
30502-9			
30503-7			
30504-5			
30505-2			
30506-0			
30561-5			
31183-7			
31635-6			
31636-4			
31637-2			
31638-0			
31639-8			
31640-6			
31641-4			
31642-2			
31643-0			
31644-8			
31645-5			

Concept Code	Concept Name	Code System	Description
31646-3			
31647-1			
31648-9			
31649-7			
31650-5			
31652-1			
31653-9			
31654-7			
31655-4			
31656-2			
31657-0			
31968-1			
31969-9			
32847-6			
32849-2			
32850-0			
34172-7			
40902-9			
40903-7			
40904-5			
40905-2			
40906-0			
40907-8			
40908-6			
40909-4			
40910-2			
40911-0			
40912-8			
40913-6			
40914-4			
40915-1			
40916-9			
40917-7			
40918-5			
40919-3			

Concept Code	Concept Name	Code System	Description
40920-1			
40921-9			
40922-7			
40923-5			
40924-3			
40925-0			
40926-8			
40963-1			
40964-9			
40965-6			
40966-4			
40967-2			
40968-0			
40969-8			
40973-0			
40974-8			
42359-0			
42360-8			
42361-6			
42362-4			
42363-2			
42364-0			
42365-7			
42366-5			
42367-3			
42771-6			
43236-9			
46205-1			
47036-9			
47037-7			
47323-1			
47324-9			
47325-6			
47326-4			
47327-2			

Concept Code	Concept Name	Code System	Description
47328-0			
47329-8			
47330-6			
47331-4			
47332-2			
47333-0			
47334-8			
47335-5			
47336-3			
47337-1			
47338-9			
47339-7			
47340-5			
47341-3			
47342-1			
47343-9			
47344-7			
47345-4			
47346-2			
47347-0			
47348-8			
47349-6			
47350-4			
47351-2			
47352-0			
47353-8			
47354-6			
47355-3			
47356-1			
47357-9			
47481-7			
47482-5			
47483-3			
47484-1			
47485-8			

Concept Code	Concept Name	Code System	Description
47486-6			
47487-4			
47488-2			
47489-0			
47490-8			
47491-6			
47492-4			
47493-2			
47494-0			
47495-7			
47496-5			
47497-3			
47498-1			
47499-9			
47500-4			
47501-2			
47502-0			
47503-8			
47504-6			
47505-3			
47506-1			
47507-9			
47508-7			
47509-5			
47510-3			
49611-7			
49672-9			
49803-0			
49804-8			
49805-5			
49806-3			
49807-1			
49808-9			
5035-1			
51407-5			

Concept Code	Concept Name	Code System	Description
51408-3			
51473-7			
51668-2			
5368-6			
53917-1			
62493-2			
6552-4			
6553-2			
6554-0			
6555-7			
8027-5			
8028-3			
8029-1			
8030-9			
8031-7			
8032-5			
8033-3			
9455-7			
9456-5			
9457-3			
9458-1			
9460-7			
9461-5			
9611-5			
V51472-9			

## PHV S\_ Medication Treatment\_ Strep Pneumo

Value Set	PHVS_MedicationTreatment_StrepPneumo - 2.16.840.1.114222.4.11.6033
Code System	RxNorm - 2.16.840.1.113883.6.88
Source	PHIN-VADS
Source URL	<a href="http://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.6033">http://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.6033</a>
Definition	Streptococcus pneumoniae medication treatment value set has list of Medications related to Streptococcus pneumoniae, invasive disease. This value set is based upon RxNorm

Concept Code	Concept Name	Code System	Description
4053	Erythromycin	RxNorm	
21212	Clarithromycin	RxNorm	
18631	Azithromycin	RxNorm	
82122	Levofloxacin	RxNorm	
138099	Gemifloxacin	RxNorm	
139462	Moxifloxacin	RxNorm	
70618	Penicillin	RxNorm	

## PHV S\_ Signs Symptoms\_ Strep Pneumo

Value Set	PHVS_SignsSymptoms_StrepPneumo - 2.16.840.1.114222.4.11.6031
Code System	SNOMEDCT - 2.16.840.1.113883.6.96
Source	PHIN-VADS
Source URL	<a href="http://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.6031">http://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.6031</a>
Definition	Streptococcus pneumoniae signs and symptoms value set has signs and symptoms related to Streptococcus pneumoniae, invasive disease. This value set is based upon SNOMED CT

Concept Code	Concept Name	Code System	Description
102496004		SNOMEDCT	
102570003		SNOMEDCT	
102599008		SNOMEDCT	
102613000		SNOMEDCT	
102614006		SNOMEDCT	
103011009		SNOMEDCT	
110288007		SNOMEDCT	
11092001		SNOMEDCT	
110989007		SNOMEDCT	
111950007		SNOMEDCT	
111985007		SNOMEDCT	
116290004		SNOMEDCT	
12336008		SNOMEDCT	
123705009		SNOMEDCT	
125115006		SNOMEDCT	
125116007		SNOMEDCT	
130987000		SNOMEDCT	
130988005		SNOMEDCT	



Concept Code	Concept Name	Code System	Description
135883003		SNOMEDCT	
13791008		SNOMEDCT	
14948001		SNOMEDCT	
15576007		SNOMEDCT	
16001004		SNOMEDCT	
161873000		SNOMEDCT	
161874006		SNOMEDCT	
162038003		SNOMEDCT	
162042000		SNOMEDCT	
162046002		SNOMEDCT	
162047006		SNOMEDCT	
162048001		SNOMEDCT	
162049009		SNOMEDCT	
162050009		SNOMEDCT	
162053006		SNOMEDCT	
162065005		SNOMEDCT	
162299003		SNOMEDCT	
162301005		SNOMEDCT	
162304002		SNOMEDCT	
162307009		SNOMEDCT	
162308004		SNOMEDCT	
162309007		SNOMEDCT	
162310002		SNOMEDCT	
162356005		SNOMEDCT	
162359003		SNOMEDCT	
162916002		SNOMEDCT	
162992001		SNOMEDCT	
163214004		SNOMEDCT	
163215003		SNOMEDCT	
163216002		SNOMEDCT	
163217006		SNOMEDCT	
163218001		SNOMEDCT	
163219009		SNOMEDCT	
163220003		SNOMEDCT	
163221004		SNOMEDCT	

Concept Code	Concept Name	Code System	Description
163222006		SNOMEDCT	
163236001		SNOMEDCT	
163238000		SNOMEDCT	
163239008		SNOMEDCT	
163240005		SNOMEDCT	
163241009		SNOMEDCT	
163242002		SNOMEDCT	
163243007		SNOMEDCT	
163244001		SNOMEDCT	
163245000		SNOMEDCT	
163246004		SNOMEDCT	
163267004		SNOMEDCT	
163358002		SNOMEDCT	
164160002		SNOMEDCT	
164215009		SNOMEDCT	
164219003		SNOMEDCT	
164221008		SNOMEDCT	
164222001		SNOMEDCT	
164247004		SNOMEDCT	
164288004		SNOMEDCT	
164299002		SNOMEDCT	
164301009		SNOMEDCT	
164304001		SNOMEDCT	
164307008		SNOMEDCT	
164308003		SNOMEDCT	
164309006		SNOMEDCT	
164311002		SNOMEDCT	
164312009		SNOMEDCT	
164314005		SNOMEDCT	
164315006		SNOMEDCT	
164316007		SNOMEDCT	
164426001		SNOMEDCT	
164524001		SNOMEDCT	
164527008		SNOMEDCT	
164528003		SNOMEDCT	

Concept Code	Concept Name	Code System	Description
164539000		SNOMEDCT	
16932000		SNOMEDCT	
17866004		SNOMEDCT	
186694006		SNOMEDCT	
18726006		SNOMEDCT	
191502008		SNOMEDCT	
191507002		SNOMEDCT	
191509004		SNOMEDCT	
191678001		SNOMEDCT	
192835007		SNOMEDCT	
19399000		SNOMEDCT	
194240006		SNOMEDCT	
194281003		SNOMEDCT	
194282005		SNOMEDCT	
194287004		SNOMEDCT	
194288009		SNOMEDCT	
194289001		SNOMEDCT	
194290005		SNOMEDCT	
194311006		SNOMEDCT	
195506001		SNOMEDCT	
196746003		SNOMEDCT	
200766001		SNOMEDCT	
200766001		SNOMEDCT	
200832000		SNOMEDCT	
200920000		SNOMEDCT	
200921001		SNOMEDCT	
200921001		SNOMEDCT	
200922008		SNOMEDCT	
200922008		SNOMEDCT	
200923003		SNOMEDCT	
200923003		SNOMEDCT	
200924009		SNOMEDCT	
200924009		SNOMEDCT	
200951007		SNOMEDCT	
202472008		SNOMEDCT	

Concept Code	Concept Name	Code System	Description
202478007		SNOMEDCT	
202479004		SNOMEDCT	
202480001		SNOMEDCT	
202481002		SNOMEDCT	
202482009		SNOMEDCT	
202483004		SNOMEDCT	
202484005		SNOMEDCT	
202485006		SNOMEDCT	
202487003		SNOMEDCT	
202489000		SNOMEDCT	
202490009		SNOMEDCT	
202491008		SNOMEDCT	
202493006		SNOMEDCT	
202495004		SNOMEDCT	
202496003		SNOMEDCT	
202497007		SNOMEDCT	
204919003		SNOMEDCT	
204919003		SNOMEDCT	
21005005		SNOMEDCT	
213026003		SNOMEDCT	
213338000		SNOMEDCT	
214264003		SNOMEDCT	
21522001		SNOMEDCT	
224960004		SNOMEDCT	
225440008		SNOMEDCT	
22818000		SNOMEDCT	
22972008		SNOMEDCT	
22972008		SNOMEDCT	
230489007		SNOMEDCT	
230490003		SNOMEDCT	
230664009		SNOMEDCT	
23067006		SNOMEDCT	
231440006		SNOMEDCT	
232251007		SNOMEDCT	
232252000		SNOMEDCT	

Concept Code	Concept Name	Code System	Description
235841007		SNOMEDCT	
236083006		SNOMEDCT	
238410003		SNOMEDCT	
238411004		SNOMEDCT	
238684007		SNOMEDCT	
238812004		SNOMEDCT	
238818000		SNOMEDCT	
238818000		SNOMEDCT	
238993006		SNOMEDCT	
23971007		SNOMEDCT	
239733006		SNOMEDCT	
240411003		SNOMEDCT	
240411003		SNOMEDCT	
240712006		SNOMEDCT	
240713001		SNOMEDCT	
247348008		SNOMEDCT	
247352008		SNOMEDCT	
247355005		SNOMEDCT	
247362001		SNOMEDCT	
247369005		SNOMEDCT	
248269005		SNOMEDCT	
248274002		SNOMEDCT	
248278004		SNOMEDCT	
248279007		SNOMEDCT	
248413004		SNOMEDCT	
248420006		SNOMEDCT	
248421005		SNOMEDCT	
248422003		SNOMEDCT	
248432005		SNOMEDCT	
248433000		SNOMEDCT	
248434006		SNOMEDCT	
248435007		SNOMEDCT	
248436008		SNOMEDCT	
248437004		SNOMEDCT	
248438009		SNOMEDCT	

Concept Code	Concept Name	Code System	Description
248439001		SNOMEDCT	
248440004		SNOMEDCT	
248441000		SNOMEDCT	
248442007		SNOMEDCT	
248443002		SNOMEDCT	
248444008		SNOMEDCT	
248445009		SNOMEDCT	
248446005		SNOMEDCT	
248447001		SNOMEDCT	
248450003		SNOMEDCT	
248451004		SNOMEDCT	
248456009		SNOMEDCT	
248581005		SNOMEDCT	
25064002		SNOMEDCT	
266158001		SNOMEDCT	
267031002		SNOMEDCT	
267032009		SNOMEDCT	
267096005		SNOMEDCT	
267949000		SNOMEDCT	
267950000		SNOMEDCT	
267952008		SNOMEDCT	
267953003		SNOMEDCT	
267954009		SNOMEDCT	
268941000		SNOMEDCT	
270490007		SNOMEDCT	
271681002		SNOMEDCT	
271749004		SNOMEDCT	
271750004		SNOMEDCT	
271751000		SNOMEDCT	
271752007		SNOMEDCT	
271753002		SNOMEDCT	
271754008		SNOMEDCT	
271755009		SNOMEDCT	
271771009		SNOMEDCT	
271823003		SNOMEDCT	

Concept Code	Concept Name	Code System	Description
271853005		SNOMEDCT	
271858001		SNOMEDCT	
271897009		SNOMEDCT	
272027003		SNOMEDCT	
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299377003		SNOMEDCT	
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299641000		SNOMEDCT	
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301357006		SNOMEDCT	
301367001		SNOMEDCT	
301368006		SNOMEDCT	
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301406006		SNOMEDCT	
301407002		SNOMEDCT	
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301717006		SNOMEDCT	
301754002		SNOMEDCT	
304213008		SNOMEDCT	
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313387002		SNOMEDCT	
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314212008		SNOMEDCT	
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35611005		SNOMEDCT	
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359609001		SNOMEDCT	
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38654001		SNOMEDCT	
386661006		SNOMEDCT	
387638003		SNOMEDCT	
38823002		SNOMEDCT	
396350005		SNOMEDCT	
399914006		SNOMEDCT	
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403210001		SNOMEDCT	
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408668005		SNOMEDCT	
409668002		SNOMEDCT	
409702008		SNOMEDCT	
41030002		SNOMEDCT	
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413223001		SNOMEDCT	
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41413006		SNOMEDCT	
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421348006		SNOMEDCT	
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439774009		SNOMEDCT	
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444042007		SNOMEDCT	
444746004		SNOMEDCT	
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445511002		SNOMEDCT	
448265002		SNOMEDCT	
448660000		SNOMEDCT	
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449129007		SNOMEDCT	
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Concept Code	Concept Name	Code System	Description
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8326008		SNOMEDCT	
84229001		SNOMEDCT	
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857002		SNOMEDCT	
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Concept Code	Concept Name	Code System	Description
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86735004		SNOMEDCT	
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88522004		SNOMEDCT	
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95658004		SNOMEDCT	
95803004		SNOMEDCT	
95804005		SNOMEDCT	
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9619006		SNOMEDCT	

## PHV S\_ Sterile Specimen\_ IPD

Value Set	PHVS_SterileSpecimen_IPD - 2.16.840.1.114222.4.11.3321
Code System	SNOMEDCT - 2.16.840.1.113883.6.96
Source	PHIN-VADS
Source URL	<a href="https://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.3321">https://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.3321</a>
Definition	Sterile Specimen for invasive pneumococcal disease

Concept Code	Concept Name	Code System	Description
119297000	Blood specimen (specimen)	SNOMEDCT	
258450006	Cerebrospinal fluid sample (specimen)	SNOMEDCT	
309125000	Joint sample (specimen)	SNOMEDCT	
122571007	Pericardial fluid specimen (specimen)	SNOMEDCT	
168139001	Peritoneal fluid sample (specimen)	SNOMEDCT	
418564007	Pleural fluid specimen (specimen)	SNOMEDCT	
119331003	Skeletal muscle specimen (specimen)	SNOMEDCT	
430268003	Specimen from bone (specimen)	SNOMEDCT	



## PHV S\_ Vaccines Administered\_ Strep Pneumo

Value Set	PHVS_VaccinesAdministered_StrepPneumo - 2.16.840.1.114222.4.11.6032
Code System	Vaccines administered (CVX) - 2.16.840.1.113883.6.59
Source	PHIN-VADS
Source URL	<a href="http://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.6032">http://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.6032</a>
Definition	Streptococcus pneumoniae vaccines received before illness onset

Concept Code	Concept Name	Code System	Description
133	Pneumococcal conjugate PCV 13	Vaccines administered (CVX)	
100	Pneumococcal conjugate PCV 7	Vaccines administered (CVX)	
33	Pneumococcal polysaccharide PPV23	Vaccines administered (CVX)	
109	Pneumococcal, unspecified formulation	Vaccines administered (CVX)	



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