3.13 Indication (V3)

```
[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.22.4.19:2023-05-01
(open)]
```

This template represents the rationale for an action such as an encounter, a medication administration, or a procedure. The id element can be used to reference a problem recorded elsewhere in the document, or can be used with a code and value to record the problem. Indications for treatment are not laboratory results; rather the problem associated with the laboratory result should be cited (e.g., hypokalemia instead of a laboratory result of Potassium 2.0 mEq/L). Use the Drug Monitoring Act [templateId 2.16.840.1.113883.10.20.22.4.123] to indicate if a particular drug needs special monitoring (e.g., anticoagulant therapy). Use Precondition for Substance Administration (V2) [templateId 2.16.840.1.113883.10.20.22.4.25.2] to represent that a medication is to be administered only when the associated criteria are met.

Many templates in C-CDA R2.1 reference the Indications V2 Template. In the next C-CDA release we will update those templates to reference the Indications V3 template.

The Reason 2.16.840.1.113883.10.20.24.3.88:2023-05-01 should used to represent the justification for an action, or for not performing an action, such as patient, system, or non-problem/diagnosis medical-related reasons

Immunization Refusal Reason 2.16.840.1.113883.10.20.22.4.53 should be used to represent the rationale for the patient declining an immunization as the value set is crafted for the immunization use case.

Table 50: Indication (V3) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.19:2023-05-01)					
@classCode	1..1	SHALL		4537-7480	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		4537-7481	urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = EVN
templateId	1..1	SHALL		4537-7482	
@root	1..1	SHALL		4537-10502	2.16.840.1.113883.10.20.22.4.19
@extension	1..1	SHALL		4537-32570	2023-05-01
id	1..*	SHALL		4537-7483	
code	1..1	SHALL		4537-31229	urn:oid:2.16.840.1.113883.3.88.12.3221.7.2 (Problem Type (SNOMEDCT))
statusCode	1..1	SHALL		4537-7487	
@code	1..1	SHALL		4537-19105	urn:oid:2.16.840.1.113883.5.14 (HL7ActStatus) = completed
effectiveTime	0..1	SHOULD		4537-7488	
value	0..1	MAY	CD	4537-7489	urn:oid:2.16.840.1.113883.3.88.12.3221.7.4 (Problem)
translation	0..*	MAY		4537-32975	
@code	1..1	SHALL		4537-32976	urn:oid:2.16.840.1.113883.6.90 (ICD-10-CM)

1. **SHALL** contain exactly one [1..1] **@classCode**="OBS" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 **STATIC**) (CONF:4537-7480).
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" (CodeSystem: HL7ActMood urn:oid:2.16.840.1.113883.5.1001 **STATIC**) (CONF:4537-7481).
3. **SHALL** contain exactly one [1..1] **templateId** (CONF:4537-7482) such that it
    a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.22.4.19" (CONF:4537-10502).
    b. **SHALL** contain exactly one [1..1] **@extension**="2023-05-01" (CONF:4537-32570).
4. **SHALL** contain at least one [1..*] **id** (CONF:4537-7483).
   Note: If the id element is used to reference a problem recorded elsewhere in the document then this id must equal another entry/id in the same document instance. Application Software must be responsible for resolving the identifier back to its original object and then rendering the information in the correct place in the containing section's narrative text. Its

purpose is to obviate the need to repeat the complete XML representation of the referred to entry when relating one entry to another.

5. **SHALL** contain exactly one [1..1] **code**, which **MAY** be selected from ValueSet **Problem Type (SNOMEDCT)** `urn:oid:2.16.840.1.113883.3.88.12.3221.7.2` **DYNAMIC** (CONF:4537-31229).

6. **SHALL** contain exactly one [1..1] **statusCode** (CONF:4537-7487).
    a. This statusCode **SHALL** contain exactly one [1..1] **@code**="completed" Completed (CodeSystem: `HL7ActStatus urn:oid:2.16.840.1.113883.5.14` **STATIC**) (CONF:4537-19105).

7. **SHOULD** contain zero or one [0..1] **effectiveTime** (CONF:4537-7488).

If the ID element does not reference a problem recorded elsewhere in the document, then observation/value must be populated with a coded entry.

8. **MAY** contain zero or one [0..1] **value** with @xsi:type="CD", where the code **MAY** be selected from ValueSet **Problem** `urn:oid:2.16.840.1.113883.3.88.12.3221.7.4` **DYNAMIC** (CONF:4537-7489).
    a. The value, if present, **MAY** contain zero or more [0..*] **translation** (CONF:4537-32975) such that it
        i. **SHALL** contain exactly one [1..1] **@code**, which **SHALL** be selected from CodeSystem `ICD-10-CM (urn:oid:2.16.840.1.113883.6.90)` **DYNAMIC** (CONF:4537-32976).

Table 51: Problem

Value Set: Problem urn:oid:2.16.840.1.113883.3.88.12.3221.7.4

(Clinical Focus: A pathology or disorder identified in a patient),(Data Element Scope: Observations),(Inclusion Criteria: Limited to terms descending from the Clinical Findings (404684003) or Situation with Explicit Context (243796009) hierarchies.),(Exclusion Criteria: any concept not in the hierarchies specified)

This value set was imported on 1/23/2023 with a version of Latest.

Value Set Source:
https://vsac.nlm.nih.gov/valueset/2.16.840.1.113883.3.88.12.3221.7.4/expansion

Code	Code System	Code System OID	Print Name
10000006	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Radiating chest pain (finding)
10001005	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Bacterial sepsis (disorder)
10007009	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Coffin-Siris syndrome (disorder)
1001000119102	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Pulmonary embolism with pulmonary infarction (disorder)
1001000124104	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Normal left ventricular systolic function (finding)
10017004	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Occlusal wear of teeth (disorder)
10019100011 9105	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Asymmetry of prostate (finding)
10021100011 9106	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Muscle spasm of thoracic back (finding)
1002229008	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Apocrine miliaria of areola (disorder)
1002253002	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Immunization series incomplete (finding)
...			

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Table 52: Problem Type (SNOMEDCT)

Value Set: Problem Type (SNOMEDCT) urn:oid:2.16.840.1.113883.3.88.12.3221.7.2
(Clinical Focus: A problem observation categorization of the condition as represented in the SNOMED CT code system.),(Data Element Scope: Problem Observation),(Inclusion Criteria: High level condition types as selected for use.),(Exclusion Criteria: Only the codes selected.)
This value set was imported on 6/20/2019 with a version of 20190319.
Value Set Source: **https://vsac.nlm.nih.gov/valueset/2.16.840.1.113883.3.88.12.3221.7.2/expansion**

Code	Code System	Code System OID	Print Name
248536006	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Finding of functional performance and activity (finding)
282291009	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Diagnosis interpretation (observable entity)
373930000	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Cognitive function finding (finding)
404684003	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Clinical finding (finding)
409586006	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Complaint (finding)
418799008	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Finding reported by subject or history provider (finding)
55607006	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Problem (finding)
64572001	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Disease (disorder)

Figure 36: Indication (V3) Example

```
<entry typeCode="DRIV">
    <substanceAdministration classCode="SBADM" moodCode="EVN">
        <templateId root="2.16.840.1.113883.10.20.22.4.16" extension="2014-06-09" />
        <!-- ** MEDICATION ACTIVITY -->
        <id root="cdbd33f0-6cde-11db-9fe1-0800200c9a66" />
        <text>
            <reference value="#Med1" /> 0.09 MG/ACTUAT inhalant solution, 2 puffs QID PRN
wheezing

        </text>
    ...
        <!-- Indication snippet inside a Medication Activity -->
        <entryRelationship typeCode="RSON">
            <observation classCode="OBS" moodCode="EVN">
                <templateId root="2.16.840.1.113883.10.20.22.4.19" extension="2023-05-01"
/>
<!-- Note that this id equals the problem observation/id -->
                <id root="db734647-fc99-424c-a864-7e3cda82e703" />
                <code codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT"
code="404684003" displayName="Finding"/>
                <statusCode code="completed" />
                <value xsi:type="CD" code="32398004" displayName="Bronchitis"
codeSystem="2.16.840.1.113883.6.96" />
            </observation>
        </entryRelationship>
    ...
    </substanceAdministration>
</entry>
        <!-- Points to a problem on the problem list -->
        <!-- Problem observation template
        <templateId root="2.16.840.1.113883.10.20.22.4.4"/>
        Note that this id equals the Indication observation/id
        <id root="db734647-fc99-424c-a864-7e3cda82e703"/> -->
```

3.14 Medication Dispense (V3)

```
[supply: identifier urn:hl7ii:2.16.840.1.113883.10.20.22.4.18:2023-05-01
(open)]
```

This template records the act of supplying medications (i.e., dispensing). The moodCode equaling "EVN" (Event), signals that the "supply" has occurred and thus has been dispensed.