b. **SHALL** contain exactly one [1..1] <u>**SOP Instance Observation**</u> (identifier: urn:oid:2.16.840.1.113883.10.20.6.2.8) (CONF:81-16083).

8. **MAY** contain zero or more [0..*] **entryRelationship** (CONF:81-9314) such that it
a. **SHALL** contain exactly one [1..1] **@typeCode**="SPRT" Has Support (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 **STATIC**) (CONF:81-9315).
b. **SHALL** contain exactly one [1..1] <u>**Quantity Measurement Observation**</u> (identifier: urn:oid:2.16.840.1.113883.10.20.6.2.14) (CONF:81-16084).

9. Code Observations **SHALL** be rendered into section/text in separate paragraphs (CONF:81-9310).

Figure 134: Code Observations Example

```
<observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.6.2.13"/>
    <code code="18782-3" codeSystem="2.16.840.1.113883.6.1"
        codeSystemName="LOINC"
        displayName="Study observation"/>
    <statusCode code="completed"/>
    <value xsi:type="CD" code="309530007"
        codeSystem="2.16.840.1.113883.6.96"
        codeSystemName="SNOMED CT"
        displayName="Hilar mass"/>
    <!-- entryRelationship elements referring to SOP Instance Observations
      or Quantity Measurement Observations may appear here -->
</observation>
```

3.14 Cognitive Status Problem Observation (DEPRECATED)

[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.22.4.73:2014-06-09 (open)]

Table 250: Cognitive Status Problem Observation (DEPRECATED) Contexts

Contained By:	Contains:
[Functional Status Section (V2)](#) (optional)	

A cognitive status problem observation is a clinical statement that describes a patient's cognitive condition, findings, or symptoms. Examples of cognitive problem observations are inability to recall, amnesia, dementia, and aggressive behavior.

A cognitive problem observation is a finding or medical condition. This is different from a cognitive result observation, which is a response to a question that provides insight into the patient's cognitive status, judgement, comprehension ability, or response speed.

THIS TEMPLATE HAS BEEN DEPRECATED AND MAY BE DELETED FROM A FUTURE RELEASE OF THIS IMPLEMENTATION GUIDE. USE OF THIS TEMPLATE IS NOT RECOMMENDED.

Reason for deprecation: Cognitive Status Problem Observation has been merged, without loss of expressivity, into Mental Status Observation (2.16.840.1.113883.10.20.22.4.74).

Table 251: Cognitive Status Problem Observation (DEPRECATED) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.73:2014-06-09)					
@classCode	1..1	SHALL		1098-14319	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		1098-14320	urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = EVN
@negationInd	0..1	MAY		1098-14344	
templateId	1..1	SHALL		1098-14346	
@root	1..1	SHALL		1098-14347	2.16.840.1.113883.10.20.22.4.73
@extension	1..1	SHALL		1098-32600	2014-06-09
id	1..*	SHALL		1098-14321	
code	1..1	SHALL		1098-14804	
@code	0..1	SHOULD		1098-14805	urn:oid:2.16.840.1.113883.6.96 (SNOMED CT) = 373930000
text	0..1	SHOULD		1098-14341	
reference	0..1	SHOULD		1098-15532	
@value	0..1	SHOULD		1098-15533	
statusCode	1..1	SHALL		1098-14323	
@code	1..1	SHALL		1098-19091	urn:oid:2.16.840.1.113883.5.14 (HL7ActStatus) = completed
effectiveTime	0..1	SHOULD		1098-14324	
low	1..1	SHALL		1098-26458	
high	0..1	MAY		1098-26459	
value	1..1	SHALL	CD	1098-14349	urn:oid:2.16.840.1.113883.3.88.12.3221.7.4 (Problem)
methodCode	0..*	MAY		1098-14693	

1. **SHALL** contain exactly one [1..1] **@classCode**="OBS" Observation (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 **STATIC**) (CONF:1098-14319).

2. **SHALL** contain exactly one [1..1] `@moodCode`="EVN" Event (CodeSystem: HL7ActMood urn:oid:2.16.840.1.113883.5.1001 **STATIC**) (CONF:1098-14320).

Use negationInd="true" to indicate that the problem was not observed.

3. **MAY** contain zero or one [0..1] `@negationInd` (CONF:1098-14344).
4. **SHALL** contain exactly one [1..1] `templateId` (CONF:1098-14346) such that it
    a. **SHALL** contain exactly one [1..1] `@root`="2.16.840.1.113883.10.20.22.4.73" (CONF:1098-14347).
    b. **SHALL** contain exactly one [1..1] `@extension`="2014-06-09" (CONF:1098-32600).
5. **SHALL** contain at least one [1..*] `id` (CONF:1098-14321).
6. **SHALL** contain exactly one [1..1] `code` (CONF:1098-14804).
    a. This code **SHOULD** contain zero or one [0..1] `@code`="373930000" Cognitive function finding (CodeSystem: SNOMED CT urn:oid:2.16.840.1.113883.6.96 **STATIC**) (CONF:1098-14805).
7. **SHOULD** contain zero or one [0..1] `text` (CONF:1098-14341).
    a. The text, if present, **SHOULD** contain zero or one [0..1] `reference` (CONF:1098-15532).
        i. The reference, if present, **SHOULD** contain zero or one [0..1] `@value` (CONF:1098-15533).
            1. SHALL begin with a '#' and **SHALL** point to its corresponding narrative (using the approach defined in CDA Release 2, section 4.3.5.1) (CONF:1098-15534).
8. **SHALL** contain exactly one [1..1] `statusCode` (CONF:1098-14323).
    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:1098-19091).
9. **SHOULD** contain zero or one [0..1] `effectiveTime` (CONF:1098-14324).

The value of effectiveTime/low represents onset date.

    a. The effectiveTime, if present, **SHALL** contain exactly one [1..1] `low` (CONF:1098-26458).

If the problem is resolved, record the resolution date in effectiveTime/high. If the problem is known to be resolved but the resolution date is not known, use @nullFlavor="UNK". If the problem is not resolved, do not include the high element.

    b. The effectiveTime, if present, **MAY** contain zero or one [0..1] `high` (CONF:1098-26459).
10. **SHALL** contain exactly one [1..1] `value` with @xsi:type="CD", where the code **SHOULD** be selected from ValueSet **Problem** urn:oid:2.16.840.1.113883.3.88.12.3221.7.4 **DYNAMIC** (CONF:1098-14349).
11. **MAY** contain zero or more [0..*] `methodCode` (CONF:1098-14693).

Table 252: 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 6/26/2019 with a version of 20190426.
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)
100191000119105	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Asymmetry of prostate (finding)
100211000119106	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Muscle spasm of thoracic back (disorder)
100231000119101	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Acquired pericardial cyst (disorder)
10028000	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Uncomplicated sedative, hypnotic AND/OR anxiolytic withdrawal (disorder)
...			

3.15 Comment Activity

```
[act: identifier urn:oid:2.16.840.1.113883.10.20.22.4.64 (open)]
```

Table 253: Comment Activity Contexts

Contained By:	Contains:
	Author Participation (optional)

Comments are free text data that cannot otherwise be recorded using data elements already defined by this specification. They are not to be used to record information that can be recorded elsewhere. For