

Figure 173: Medication Supply Order (V2) Example

```
<supply classCode="SPLY" moodCode="INT">
  <templateId root="2.16.840.1.113883.10.20.22.4.17" extension="2014-06-09" />
  <id root="aba2fc75-1a43-435f-8309-d24e4be5f1cd" />
  <statusCode code="completed" />
  <effectiveTime xsi:type="IVL_TS">
    <low value="20070103" />
    <high nullFlavor="UNK" />
  </effectiveTime>
  <repeatNumber value="1" />
  <quantity value="75" />
  <product>
    <manufacturedProduct classCode="MANU">
      <templateId root="2.16.840.1.113883.10.20.22.4.23" extension="2014-06-09" />
      . . .
    </manufacturedProduct>
  </product>
  <author>
    . . .
  </author>
  <entryRelationship typeCode="SUBJ" inversionInd="true">
    <act classCode="ACT" moodCode="INT">
      <templateId root="2.16.840.1.113883.10.20.22.4.20" extension="2014-06-09" />
      . . .
    </act>
  </entryRelationship>
</supply>
```

3.53 Mental Status Observation (V3)

[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.22.4.74:2015-08-01
(open)]

Table 352: Mental Status Observation (V3) Contexts

Contained By:	Contains:
Mental Status Organizer (V3) (required) Mental Status Section (V2) (optional) Health Concern Act (V2) (optional) Risk Concern Act (V2) (optional)	Assessment Scale Observation (optional) Author Participation (optional)

The Mental Status Observation template represents an observation about mental status that can come from a broad range of subjective and objective information (including measured data) to address those categories described in the Mental Status Section. See also Assessment Scale Observation for specific collections of observations that together yield a summary evaluation of a particular condition.

Table 353: Mental Status Observation (V3) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.74:2015-08-01)					
@classCode	1..1	SHALL		1198-14249	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		1198-14250	urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = EVN
templateId	1..1	SHALL		1198-14255	
@root	1..1	SHALL		1198-14256	2.16.840.1.113883.10.20.22.4.74
@extension	1..1	SHALL		1198-32565	2015-08-01
id	1..*	SHALL		1198-14257	
code	1..1	SHALL		1198-14591	
@code	1..1	SHALL		1198-32788	373930000
@codeSystem	1..1	SHALL		1198-32789	urn:oid:2.16.840.1.113883.6.96 (SNOMED CT) = 2.16.840.1.113883.6.96
translation	1..1	SHALL		1198-32790	
@code	1..1	SHALL		1198-32791	75275-8
@codeSystem	1..1	SHALL		1198-32792	urn:oid:2.16.840.1.113883.6.1 (LOINC) = 2.16.840.1.113883.6.1
statusCode	1..1	SHALL		1198-14254	
@code	1..1	SHALL		1198-19092	urn:oid:2.16.840.1.113883.5.14 (HL7ActStatus) = completed
effectiveTime	1..1	SHALL		1198-14261	
value	1..1	SHALL		1198-14263	
author	0..*	SHOULD		1198-14266	Author Participation (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.119)
entryRelationship	0..*	MAY		1198-14469	
@typeCode	1..1	SHALL		1198-14595	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = COMP

XPath	Card.	Verb	Data Type	CONF#	Value
observation	1..1	SHALL		1198-14470	Assessment Scale Observation (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.69)
referenceRange	0..*	MAY		1198-14267	

1. **SHALL** contain exactly one [1..1] **@classCode="OBS"** Observation (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 **STATIC**) (CONF:1198-14249).
2. **SHALL** contain exactly one [1..1] **@moodCode="EVN"** Event (CodeSystem: HL7ActMood urn:oid:2.16.840.1.113883.5.1001 **STATIC**) (CONF:1198-14250).
3. **SHALL** contain exactly one [1..1] **templateId** (CONF:1198-14255) such that it
 - a. **SHALL** contain exactly one [1..1] **@root="2.16.840.1.113883.10.20.22.4.74"** (CONF:1198-14256).
 - b. **SHALL** contain exactly one [1..1] **@extension="2015-08-01"** (CONF:1198-32565).
4. **SHALL** contain at least one [1..*] **id** (CONF:1198-14257).
5. **SHALL** contain exactly one [1..1] **code** (CONF:1198-14591).
 - a. This code **SHALL** contain exactly one [1..1] **@code="373930000"** Cognitive function (CONF:1198-32788).
 - b. This code **SHALL** contain exactly one [1..1] **@codeSystem="2.16.840.1.113883.6.96"** (CodeSystem: SNOMED CT urn:oid:2.16.840.1.113883.6.96) (CONF:1198-32789).
 - c. This code **SHALL** contain exactly one [1..1] **translation** (CONF:1198-32790) such that it
 - i. **SHALL** contain exactly one [1..1] **@code="75275-8"** Cognitive Function (CONF:1198-32791).
 - ii. **SHALL** contain exactly one [1..1] **@codeSystem="2.16.840.1.113883.6.1"** (CodeSystem: LOINC urn:oid:2.16.840.1.113883.6.1 **STATIC**) (CONF:1198-32792).
6. **SHALL** contain exactly one [1..1] **statusCode** (CONF:1198-14254).
 - 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:1198-19092).
7. **SHALL** contain exactly one [1..1] **effectiveTime** (CONF:1198-14261).
8. **SHALL** contain exactly one [1..1] **value** (CONF:1198-14263).
 - a. If xsi:type="CD", **SHOULD** contain a code from SNOMED CT (CodeSystem: 2.16.840.1.113883.6.96) (CONF:1198-14271).
9. **SHOULD** contain zero or more [0..*] [Author Participation](#) (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.119) (CONF:1198-14266).
10. **MAY** contain zero or more [0..*] **entryRelationship** (CONF:1198-14469) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="COMP"** has component (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 **STATIC**) (CONF:1198-14595).

- b. **SHALL** contain exactly one [1..1] [Assessment Scale Observation](#) (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.69) (CONF:1198-14470).

The referenceRange could be used to represent normal or expected capability for the mental function being evaluated.

- 11. **MAY** contain zero or more [0..*] **referenceRange** (CONF:1198-14267).

Figure 174: Mental Status Observation (V3) Example

```

<entry>
  <organizer classCode="CLUSTER" moodCode="EVN">
    <!-- Mental Status Organizer-->
    <templateId root="2.16.840.1.113883.10.20.22.4.75" extension="2015-08-01" />
    <id root="a7bc1062-8649-42a0-833d-ekd65bd013c9" />
    <code code="75275-8"
          displayName="Cognitive function"
          codeSystem="2.16.840.1.113883.6.1"
          codeSystemName="LOINC" />
    <statusCode code="completed" />
    <component>
      <observation classCode="OBS" moodCode="EVN">
        <!-- Mental Status Observation V3 -->
        <templateId root="2.16.840.1.113883.10.20.22.4.74" extension="2015-08-01"
        />
        ...

        <code code="373930000" displayName="Cognitive function"
              codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED
CT">
          <translation code="75275-8"
                    displayName="Cognitive function"
                    codeSystem="2.16.840.1.113883.6.1"
                    codeSystemName="LOINC"></translation>
        </code>
        <statusCode code="completed"/>
        ...

        <!-- Value element holds the Cognitive Function assessment -->
        ...
      </observation>
    </component>
    <component>
      <observation classCode="OBS" moodCode="EVN">
        <!-- Mental Status Observation V3 -->
        <templateId root="2.16.840.1.113883.10.20.22.4.74" extension="2015-08-01"
        />
        ...

        </observation>
      </component>
    </organizer>
  </entry>

```

3.54 Mental Status Organizer (V3)

[organizer: identifier urn:hl7ii:2.16.840.1.113883.10.20.22.4.75:2015-08-01
(open)]

Table 354: Mental Status Organizer (V3) Contexts

Contained By:	Contains:
Mental Status Section (V2) (optional)	Mental Status Observation (V3) (required)

The Mental Status Organizer template may be used to group related Mental Status Observations (e.g., results of mental tests) and associated Assessment Scale Observations into subcategories and/or groupings by time. Subcategories can be things such as Mood and Affect, Behavior, Thought Process, Perception, Cognition, etc.

Table 355: Mental Status Organizer (V3) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
organizer (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.75:2015-08-01)					
@classCode	1..1	SHALL		1198-14369	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = CLUSTER
@moodCode	1..1	SHALL		1198-14371	urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = EVN
templateId	1..1	SHALL		1198-14375	
@root	1..1	SHALL		1198-14376	2.16.840.1.113883.10.20.22.4.75
@extension	1..1	SHALL		1198-32566	2015-08-01
id	1..*	SHALL		1198-14377	
code	1..1	SHALL		1198-14378	
@code	1..1	SHALL		1198-14697	
statusCode	1..1	SHALL		1198-14372	
@code	1..1	SHALL		1198-19093	urn:oid:2.16.840.1.113883.5.14 (HL7ActStatus) = completed
effectiveTime	0..1	SHOULD		1198-32424	
component	1..*	SHALL		1198-14373	
observation	1..1	SHALL		1198-14381	Mental Status Observation (V3) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.74:2015-08-01)