

### 3.58 *Nutrition Recommendation*

[act: identifier urn:oid:2.16.840.1.113883.10.20.22.4.130 (open)]

**Table 361: Nutrition Recommendation Contexts**

Contained By:	Contains:
<a href="#">Plan of Treatment Section (V2)</a> (optional) <a href="#">Planned Intervention Act (V2)</a> (optional) <a href="#">Intervention Act (V2)</a> (optional)	<a href="#">Planned Act (V2)</a> (optional) <a href="#">Planned Encounter (V2)</a> (optional) <a href="#">Planned Procedure (V2)</a> (optional) <a href="#">Planned Observation (V2)</a> (optional) <a href="#">Planned Supply (V2)</a> (optional) <a href="#">Planned Medication Activity (V2)</a> (optional)

This template represents nutrition regimens (e.g., fluid restrictions, calorie minimum), interventions (e.g., NPO, nutritional supplements), and procedures (e.g., G-Tube by bolus, TPN by central line). It may also depict the need for nutrition education.

**Table 362: Nutrition Recommendation Constraints Overview**

<b>XPath</b>	<b>Card.</b>	<b>Verb</b>	<b>Data Type</b>	<b>CONF#</b>	<b>Value</b>
act (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.130)					
@classCode	1..1	SHALL		<a href="#">1098-30385</a>	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = ACT
@moodCode	1..1	SHALL		<a href="#">1098-30386</a>	urn:oid:2.16.840.1.113883.11.20.9.23 (Planned moodCode (Act/Encounter/Procedure))
templateId	1..1	SHALL		<a href="#">1098-30340</a>	
@root	1..1	SHALL		<a href="#">1098-30341</a>	2.16.840.1.113883.10.20.22.4.130
code	1..1	SHALL		<a href="#">1098-30342</a>	urn:oid:2.16.840.1.113883.1.11.20.2.9 (Nutrition Recommendations)
statusCode	1..1	SHALL		<a href="#">1098-31697</a>	
@code	1..1	SHALL		<a href="#">1098-31698</a>	urn:oid:2.16.840.1.113883.5.14 (HL7ActStatus) = active
effectiveTime	0..1	SHOULD		<a href="#">1098-31699</a>	
entryRelationship	0..*	MAY		<a href="#">1098-32382</a>	
@typeCode	1..1	SHALL		<a href="#">1098-32928</a>	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR
encounter	1..1	SHALL		<a href="#">1098-32383</a>	<a href="#">Planned Encounter (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.40:2014-06-09)</a>
entryRelationship	0..*	MAY		<a href="#">1098-32384</a>	
@typeCode	1..1	SHALL		<a href="#">1098-32929</a>	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR
substanceAdministration	1..1	SHALL		<a href="#">1098-32385</a>	<a href="#">Planned Medication Activity (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.42:2014-06-09)</a>
entryRelationship	0..*	MAY		<a href="#">1098-32386</a>	
@typeCode	1..1	SHALL		<a href="#">1098-32930</a>	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR
observation	1..1	SHALL		<a href="#">1098-32387</a>	<a href="#">Planned Observation (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.44:2014-06-09)</a>

XPath	Card.	Verb	Data Type	CONF#	Value
entryRelationship	0..*	MAY		<a href="#">1098-32388</a>	
@typeCode	1..1	SHALL		<a href="#">1098-32931</a>	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR
procedure	1..1	SHALL		<a href="#">1098-32389</a>	<a href="#">Planned Procedure (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.41:2014-06-09)</a>
entryRelationship	0..*	MAY		<a href="#">1098-32390</a>	
@typeCode	1..1	SHALL		<a href="#">1098-32932</a>	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR
supply	1..1	SHALL		<a href="#">1098-32391</a>	<a href="#">Planned Supply (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.43:2014-06-09)</a>
entryRelationship	0..*	MAY		<a href="#">1098-32632</a>	
@typeCode	1..1	SHALL		<a href="#">1098-32933</a>	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR
act	1..1	SHALL		<a href="#">1098-32633</a>	<a href="#">Planned Act (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.39:2014-06-09)</a>

1. **SHALL** contain exactly one [1..1] **@classCode="ACT"** act (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1098-30385).
2. **SHALL** contain exactly one [1..1] **@moodCode**, which **SHALL** be selected from ValueSet [Planned moodCode \(Act/Encounter/Procedure\)](#) urn:oid:2.16.840.1.113883.11.20.9.23 **STATIC** 2014-09-01 (CONF:1098-30386).
3. **SHALL** contain exactly one [1..1] **templateId** (CONF:1098-30340) such that it
  - a. **SHALL** contain exactly one [1..1] **@root="2.16.840.1.113883.10.20.22.4.130"** (CONF:1098-30341).
4. **SHALL** contain exactly one [1..1] **code**, which **SHOULD** be selected from ValueSet [Nutrition Recommendations](#) urn:oid:2.16.840.1.113883.1.11.20.2.9 **DYNAMIC** (CONF:1098-30342).
5. **SHALL** contain exactly one [1..1] **statusCode** (CONF:1098-31697).
  - a. This statusCode **SHALL** contain exactly one [1..1] **@code="active"** Active (CodeSystem: HL7ActStatus urn:oid:2.16.840.1.113883.5.14) (CONF:1098-31698).

The effectiveTime indicates the time when the activity is intended to take place.

6. **SHOULD** contain zero or one [0..1] **effectiveTime** (CONF:1098-31699).
7. **MAY** contain zero or more [0..\*] **entryRelationship** (CONF:1098-32382) such that it

- a. **SHALL** contain exactly one [1..1] **@typeCode="REFR"** Refers to (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1098-32928).
  - b. **SHALL** contain exactly one [1..1] [Planned Encounter \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.40:2014-06-09) (CONF:1098-32383).
8. **MAY** contain zero or more [0..\*] **entryRelationship** (CONF:1098-32384) such that it
  - a. **SHALL** contain exactly one [1..1] **@typeCode="REFR"** Refers to (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1098-32929).
  - b. **SHALL** contain exactly one [1..1] [Planned Medication Activity \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.42:2014-06-09) (CONF:1098-32385).
9. **MAY** contain zero or more [0..\*] **entryRelationship** (CONF:1098-32386) such that it
  - a. **SHALL** contain exactly one [1..1] **@typeCode="REFR"** Refers to (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1098-32930).
  - b. **SHALL** contain exactly one [1..1] [Planned Observation \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.44:2014-06-09) (CONF:1098-32387).
10. **MAY** contain zero or more [0..\*] **entryRelationship** (CONF:1098-32388) such that it
  - a. **SHALL** contain exactly one [1..1] **@typeCode="REFR"** Refers to (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1098-32931).
  - b. **SHALL** contain exactly one [1..1] [Planned Procedure \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.41:2014-06-09) (CONF:1098-32389).
11. **MAY** contain zero or more [0..\*] **entryRelationship** (CONF:1098-32390) such that it
  - a. **SHALL** contain exactly one [1..1] **@typeCode="REFR"** Refers to (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1098-32932).
  - b. **SHALL** contain exactly one [1..1] [Planned Supply \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.43:2014-06-09) (CONF:1098-32391).
12. **MAY** contain zero or more [0..\*] **entryRelationship** (CONF:1098-32632) such that it
  - a. **SHALL** contain exactly one [1..1] **@typeCode="REFR"** Refers to (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1098-32933).
  - b. **SHALL** contain exactly one [1..1] [Planned Act \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.39:2014-06-09) (CONF:1098-32633).

**Table 363: Nutrition Recommendations**

Value Set: Nutrition Recommendations urn:oid:2.16.840.1.113883.1.11.20.2.9 (Clinical Focus: Types of nutritional regimes, therapies or interventions.), (Data Element Scope: @Code in Nutrition Recommendation template C-CDA r2.1 [act: identifier urn:oid:2.16.840.1.113883.10.20.22.4.130 (open)]), (Inclusion Criteria: Specified codes for high level types of nutritional regimes), (Exclusion Criteria: )  This value set was imported on 6/25/2019 with a version of 20190319. Value Set Source: <a href="https://vsac.nlm.nih.gov/valueset/2.16.840.1.113883.1.11.20.2.9/expansion">https://vsac.nlm.nih.gov/valueset/2.16.840.1.113883.1.11.20.2.9/expansion</a>			
Code	Code System	Code System OID	Print Name
182922004	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Dietary regime (regime/therapy)
225372007	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Total parenteral nutrition (regime/therapy)
229912004	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Enteral feeding (regime/therapy)
386373004	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Nutrition therapy (regime/therapy)
413315001	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Nutrition / feeding management (regime/therapy)
418995006	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Feeding regime (regime/therapy)
42846100012 4101	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Referral to nutrition professional (procedure)
43569100012 4100	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Diet modified for specific foods or ingredients (regime/therapy)
44104100012 4100	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Counseling about nutrition (procedure)
448556005	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Oral nutritional support (regime/therapy)
...			

**Table 364: Planned moodCode (Act/Encounter/Procedure)**

Value Set: Planned moodCode (Act/Encounter/Procedure) urn:oid:2.16.840.1.113883.11.20.9.23 This value set is used to restrict the moodCode on an act, an encounter or a procedure to future moods Value Set Source: <a href="https://vsac.nlm.nih.gov/">https://vsac.nlm.nih.gov/</a>			
Code	Code System	Code System OID	Print Name
INT	HL7ActMood	urn:oid:2.16.840.1.113883.5.10.01	Intent
ARQ	HL7ActMood	urn:oid:2.16.840.1.113883.5.10.01	Appointment Request
PRMS	HL7ActMood	urn:oid:2.16.840.1.113883.5.10.01	Promise
PRP	HL7ActMood	urn:oid:2.16.840.1.113883.5.10.01	Proposal
RQO	HL7ActMood	urn:oid:2.16.840.1.113883.5.10.01	Request
APT	HL7ActMood	urn:oid:2.16.840.1.113883.5.10.01	Appointment

**Figure 179: Nutrition Recommendation Example**

<pre> &lt;entry&gt;   &lt;act moodCode="INT" classCode="ACT"&gt;     &lt;!-- Nutrition Recommendation ACT--&gt;     &lt;templateId root="2.16.840.1.113883.10.20.22.4.130" /&gt;     &lt;id root="9a6d1bac-17d3-4195-89a4-1121bc809a5c" /&gt;     &lt;code code="61310001"       displayName="nutrition education"       codeSystem="2.16.840.1.113883.6.96"       codeSystemName="SNOMED CT" /&gt;     &lt;statusCode code="active" /&gt;     &lt;effectiveTime value="20130512" /&gt;   &lt;/act&gt; &lt;/entry&gt; </pre>
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### 3.59 Nutritional Status Observation

[observation: identifier urn:oid:2.16.840.1.113883.10.20.22.4.124 (open)]

**Table 365: Nutritional Status Observation Contexts**

Contained By:	Contains:
<a href="#">Nutrition Section</a> (optional) <a href="#">Health Concern Act (V2)</a> (optional) <a href="#">Risk Concern Act (V2)</a> (optional)	<a href="#">Nutrition Assessment</a> (required)

This template describes the overall nutritional status of the patient including findings related to nutritional status.