3.58 Nutrition Recommendation

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

Table 363: Nutrition Recommendation Contexts

Contained By:	Contains:
Plan of Treatment Section (V2) (optional) Planned Intervention Act (V2) (optional) Intervention Act (V2) (optional)	Planned Act (V2) (optional) Planned Encounter (V2) (optional) Planned Procedure (V2) (optional) Planned Observation (V2) (optional) Planned Supply (V2) (optional) Planned Medication Activity (V2) (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 364: Nutrition Recommendation Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
act (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.130)					
@classCode	1..1	SHALL		1098-30385	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = ACT
@moodCode	1..1	SHALL		1098-30386	urn:oid:2.16.840.1.113883.11.20.9.23 (Planned moodCode (Act/Encounter/Procedure))
templateId	1..1	SHALL		1098-30340	
@root	1..1	SHALL		1098-30341	2.16.840.1.113883.10.20.22.4.130
code	1..1	SHALL		1098-30342	urn:oid:2.16.840.1.113883.1.11.20.2.9 (Nutrition Recommendations)
statusCode	1..1	SHALL		1098-31697	
@code	1..1	SHALL		1098-31698	urn:oid:2.16.840.1.113883.5.14 (HL7ActStatus) = active
effectiveTime	0..1	SHOULD		1098-31699	
entryRelationship	0..*	MAY		1098-32382	
@typeCode	1..1	SHALL		1098-32928	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR
encounter	1..1	SHALL		1098-32383	Planned Encounter (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.40:2014-06-09

XPath	Card.	Verb	Data Type	CONF#	Value
entryRelationship	0..*	MAY		1098-32384	
@typeCode	1..1	SHALL		1098-32929	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR
substanceAdministration	1..1	SHALL		1098-32385	Planned Medication Activity (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.42:2014-06-09
entryRelationship	0..*	MAY		1098-32386	
@typeCode	1..1	SHALL		1098-32930	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR
observation	1..1	SHALL		1098-32387	Planned Observation (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.44:2014-06-09
entryRelationship	0..*	MAY		1098-32388	
@typeCode	1..1	SHALL		1098-32931	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR
procedure	1..1	SHALL		1098-32389	Planned Procedure (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.41:2014-06-09
entryRelationship	0..*	MAY		1098-32390	
@typeCode	1..1	SHALL		1098-32932	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR
supply	1..1	SHALL		1098-32391	Planned Supply (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.43:2014-06-09
entryRelationship	0..*	MAY		1098-32632	
@typeCode	1..1	SHALL		1098-32933	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR
act	1..1	SHALL		1098-32633	Planned Act (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.39:2014-06-09

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 365: 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:
https://vsac.nlm.nih.gov/valueset/2.16.840.1.113883.1.11.20.2.9/expansion

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)
428461000124101	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Referral to nutrition professional (procedure)
435691000124100	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Diet modified for specific foods or ingredients (regime/therapy)
441041000124100	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 366: 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:
https://vsac.nlm.nih.gov/valueset/2.16.840.1.113883.11.20.9.23/expansion

Code	Code System	Code System OID	Print Name
INT	HL7ActMood	urn:oid:2.16.840.1.113883.5.1001	Intent
ARQ	HL7ActMood	urn:oid:2.16.840.1.113883.5.1001	Appointment Request
PRMS	HL7ActMood	urn:oid:2.16.840.1.113883.5.1001	Promise
PRP	HL7ActMood	urn:oid:2.16.840.1.113883.5.1001	Proposal
RQO	HL7ActMood	urn:oid:2.16.840.1.113883.5.1001	Request
APT	HL7ActMood	urn:oid:2.16.840.1.113883.5.1001	Appointment

Figure 179: Nutrition Recommendation Example

```
<entry>
    <act moodCode="INT" classCode="ACT">
        <!-- Nutrition Recommendation ACT-->
        <templateId root="2.16.840.1.113883.10.20.22.4.130" />
        <id root="9a6d1bac-17d3-4195-89a4-1121bc809a5c" />
        <code code="61310001"
                displayName="nutrition education"
                codeSystem="2.16.840.1.113883.6.96"
                codeSystemName="SNOMED CT" />
        <statusCode code="active" />
        <effectiveTime value="20130512" />
    </act>
</entry>
```

3.59 Nutritional Status Observation

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

Table 367: Nutritional Status Observation Contexts

Contained By:	Contains:
Nutrition Section (optional)	Nutrition Assessment (required)
Health Concern Act (V2) (optional)	
Risk Concern Act (V2) (optional)	