

### 3.45 Instruction (V2)

[act: identifier urn:hl7ii:2.16.840.1.113883.10.20.22.4.20:2014-06-09 (open)]

**Table 328: Instruction (V2) Contexts**

Contained By:	Contains:
<a href="#">Medication Activity (V2)</a> (optional) <a href="#">Plan of Treatment Section (V2)</a> (optional) <a href="#">Procedure Activity Act (V2)</a> (optional) <a href="#">Procedure Activity Procedure (V2)</a> (optional) <a href="#">Procedure Activity Observation (V2)</a> (optional) <a href="#">Non-Medicinal Supply Activity (V2)</a> (optional) <a href="#">Planned Act (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) <a href="#">Medication Supply Order (V2)</a> (optional) <a href="#">Instructions Section (V2)</a> (required) <a href="#">Planned Immunization Activity</a> (optional) <a href="#">Immunization Activity (V3)</a> (optional) <a href="#">Planned Intervention Act (V2)</a> (optional) <a href="#">Intervention Act (V2)</a> (optional)	

The Instruction template can be used in several ways, such as to record patient instructions within a Medication Activity or to record fill instructions within a supply order. The template's moodCode can only be INT. If an instruction was already given, the Procedure Activity Act template (instead of this template) should be used to represent the already occurred instruction. The act/code defines the type of instruction. Though not defined in this template, a Vaccine Information Statement (VIS) document could be referenced through act/reference/externalDocument, and patient awareness of the instructions can be represented with the generic participant and the participant/awarenessCode.

**Table 329: Instruction (V2) Constraints Overview**

XPath	Card.	Verb	Data Type	CONF#	Value
act (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.20:2014-06-09)					
@classCode	1..1	SHALL		<a href="#">1098-7391</a>	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = ACT
@moodCode	1..1	SHALL		<a href="#">1098-7392</a>	urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = INT
templateId	1..1	SHALL		<a href="#">1098-7393</a>	
@root	1..1	SHALL		<a href="#">1098-10503</a>	2.16.840.1.113883.10.20.22.4.20
@extension	1..1	SHALL		<a href="#">1098-32598</a>	2014-06-09
code	1..1	SHALL		<a href="#">1098-16884</a>	urn:oid:2.16.840.1.113883.11.20.9.34 (Patient Education)
statusCode	1..1	SHALL		<a href="#">1098-7396</a>	
@code	1..1	SHALL		<a href="#">1098-19106</a>	urn:oid:2.16.840.1.113883.5.14 (HL7ActStatus) = completed

1. **SHALL** contain exactly one [1..1] **@classCode**="ACT" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 **STATIC**) (CONF:1098-7391).
2. **SHALL** contain exactly one [1..1] **@moodCode**="INT" (CodeSystem: HL7ActMood urn:oid:2.16.840.1.113883.5.1001 **STATIC**) (CONF:1098-7392).
3. **SHALL** contain exactly one [1..1] **templateId** (CONF:1098-7393) such that it
  - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.22.4.20" (CONF:1098-10503).
  - b. **SHALL** contain exactly one [1..1] **@extension**="2014-06-09" (CONF:1098-32598).
4. **SHALL** contain exactly one [1..1] **code**, which **SHOULD** be selected from ValueSet [Patient Education](#) urn:oid:2.16.840.1.113883.11.20.9.34 **DYNAMIC** (CONF:1098-16884).
5. **SHALL** contain exactly one [1..1] **statusCode** (CONF:1098-7396).
  - 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:1098-19106).

**Table 330: Patient Education**

Value Set: Patient Education urn:oid:2.16.840.1.113883.11.20.9.34 (Clinical Focus: Interventions intended to inform the patient about a condition, its treatment, and the patient's role in the treatment),(Data Element Scope: procedure or communication),(Inclusion Criteria: All concepts descending from the Education (409073007) or the Education with explicit context (460615006) hierarchies in SNOMED CT.),(Exclusion Criteria: any concept not in the hierarchies described)  This value set was imported on 6/25/2019 with a version of 20190413. Value Set Source: <a href="https://vsac.nlm.nih.gov/valueset/2.16.840.1.113883.11.20.9.34/expansion">https://vsac.nlm.nih.gov/valueset/2.16.840.1.113883.11.20.9.34/expansion</a>			
Code	Code System	Code System OID	Print Name
10189761000046105	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Hypertension exercise education (procedure)
10756541000119104	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Childbirth education done (situation)
108247002	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Visual correction training AND/OR re-education procedure (procedure)
113145005	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Biofeedback training in conduction disorder, arrhythmia (regime/therapy)
113155009	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Myocardial infarction education (procedure)
114641000119104	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Natural contraception education done (situation)
11581009	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Swinging transfer training (regime/therapy)
11816003	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Diet education (procedure)
118629009	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Functional training (procedure)
11924009	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Orthotics training of upper extremities (procedure)
...			

**Figure 165: Instruction (V2) Example**

```
<act classCode="ACT" moodCode="INT">
<templateId root="2.16.840.1.113883.10.20.22.4.20" extension="2014-06-09" />
<code code="171044003" codeSystem="2.16.840.1.113883.6.96" displayName="immunization
education" />
<text>
  <reference value="#immunSect" />
  Possible flu-like symptoms for three days.
</text>
<statusCode code="completed" />
</act>
```

### 3.46 Intervention Act (V2)

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[act: identifier urn:hl7ii:2.16.840.1.113883.10.20.22.4.131:2015-08-01
(open)]
```

**Table 331: Intervention Act (V2) Contexts**

Contained By:	Contains:
<a href="#">Planned Intervention Act (V2)</a> (optional) <a href="#">Intervention Act (V2)</a> (optional) <a href="#">Interventions Section (V3)</a> (optional)	<a href="#">Medication Activity (V2)</a> (optional) <a href="#">Procedure Activity Act (V2)</a> (optional) <a href="#">Procedure Activity Procedure (V2)</a> (optional) <a href="#">Procedure Activity Observation (V2)</a> (optional) <a href="#">Non-Medicinal Supply Activity (V2)</a> (optional) <a href="#">Nutrition Recommendation</a> (optional) <a href="#">Handoff Communication Participants</a> (optional) <a href="#">Instruction (V2)</a> (optional) <a href="#">Author Participation</a> (optional) <a href="#">Entry Reference</a> (optional) <a href="#">External Document Reference</a> (optional) <a href="#">Immunization Activity (V3)</a> (optional) <a href="#">Advance Directive Observation (V3)</a> (optional) <a href="#">Planned Intervention Act (V2)</a> (optional) <a href="#">Intervention Act (V2)</a> (optional) <a href="#">Encounter Activity (V3)</a> (optional)

This template represents an Intervention Act. It is a wrapper for intervention-type activities considered to be parts of the same intervention. For example, an activity such as "elevate head of bed" combined with "provide humidified O2 per nasal cannula" may be the interventions performed for a health concern of "respiratory insufficiency" to achieve a goal of "pulse oximetry greater than 92%". These intervention activities may be newly described or derived from a variety of sources within an EHR. Interventions are actions taken to increase the likelihood of achieving the patient's or providers' goals. An Intervention Act should contain a reference to a Goal Observation representing the reason for the intervention.

Intervention Acts can be related to each other, or to Planned Intervention Acts. (E.g., a Planned Intervention Act with moodCode of INT could be related to a series of Intervention Acts with moodCode of EVN, each having an effectiveTime containing the time of the intervention.)