Figure 223: SOP Instance Observation Example

```
<observation classCode="DGIMG" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.6.2.8"/>
    <id root="1.2.840.113619.2.62.994044785528.20060823.200608232232322.3"/>
    <code code="1.2.840.10008.5.1.4.1.1.1"</pre>
codeSystem="1.2.840.10008.2.6.1" codeSystemName="DCMUID"
displayName="Computed Radiography Image Storage"></code>
    <text mediaType="application/dicom">
        <reference
value="http://www.example.org/wado?requestType=WADO& studyUID=1.2.840.113619.2.62.994044
785528.114289542805& seriesUID=1.2.840.113619.2.62.994044785528.20060823223142485051&amp
;objectUID=1.2.840.113619.2.62.994044785528.20060823.200608232232322.3&contentType=appl
ication/dicom"/>
        <!--reference to image 1 (PA) -->
    </text>
    <effectiveTime value="200608231235-0800"/>
</observation>
```

3.103Study Act

[act: identifier urn:oid:2.16.840.1.113883.10.20.6.2.6 (open)]

Table 488: Study Act Contexts

Contained By:	Contains:
DICOM Object Catalog Section - DCM 121181	Series Act (required)
(required)	

A Study Act contains the DICOM study information that defines the characteristics of a referenced medical study performed on a patient. A study is a collection of one or more series of medical images, presentation states, SR documents, overlays, and/or curves that are logically related for the purpose of diagnosing a patient. Each study is associated with exactly one patient. A study may include composite instances that are created by a single modality, multiple modalities, or by multiple devices of the same modality. The study information is modality-independent. Study Act clinical statements are only instantiated in the DICOM Object Catalog section; in other sections, the SOP Instance Observation is included directly.

Table 489: Study Act Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value		
act (identifier: urn:oid:2.16.840.1.113883.10.20.6.2.6)							
@classCode	11	SHALL		81-9207	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = ACT		
@moodCode	11	SHALL		81-9208	urn:oid:2.16.840.1.113883.5.1 001 (HL7ActMood) = EVN		
templateId	11	SHALL		81-9209			
@root	11	SHALL		81-10533	2.16.840.1.113883.10.20.6.2. 6		
id	1*	SHALL		81-9210			
@root	11	SHALL		81-9213			
@extension	00	SHALL NOT		81-9211			
code	11	SHALL		81-19172			
@code	11	SHALL		81-19173	113014		
@codeSystem	11	SHALL		81-26506	urn:oid:1.2.840.10008.2.16.4 (DCM) = 1.2.840.10008.2.16.4		
text	01	MAY		81-9215			
reference	01	SHOULD		81-15995			
@value	01	SHOULD		81-15996			
effectiveTime	01	SHOULD		81-9216			
entryRelationship	1*	SHALL		81-9219			
@typeCode	11	SHALL		81-9220	urn:oid:2.16.840.1.113883.5.1 002 (HL7ActRelationshipType) = COMP		
act	11	SHALL		81-15937	Series Act (identifier: urn:oid:2.16.840.1.113883.10. 20.22.4.63		

- 1. **SHALL** contain exactly one [1..1] @classCode="ACT" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 **STATIC**) (CONF:81-9207).
- 2. **SHALL** contain exactly one [1..1] **@moodCode="**EVN" (CodeSystem: HL7ActMood urn:oid:2.16.840.1.113883.5.1001 **STATIC**) (CONF:81-9208).
- 3. SHALL contain exactly one [1..1] templateId (CONF:81-9209) such that it
 - a. **SHALL** contain exactly one [1..1] **@root="**2.16.840.1.113883.10.20.6.2.6" (CONF:81-10533).
- 4. **SHALL** contain at least one [1..*] **id** (CONF:81-9210).

The @root contains the OID of the study instance UID since DICOM study ids consist only of an OID

- a. Such ids **SHALL** contain exactly one [1..1] @root (CONF:81-9213).
- b. Such ids **SHALL NOT** contain [0..0] @extension (CONF:81-9211).

- 5. **SHALL** contain exactly one [1..1] **code** (CONF:81-19172).
 - a. This code **SHALL** contain exactly one [1..1] @code="113014" (CONF:81-19173).
 - b. This code **SHALL** contain exactly one [1..1] @codeSystem="1.2.840.10008.2.16.4" (CodeSystem: DCM urn:oid:1.2.840.10008.2.16.4) (CONF:81-26506).

If present, the text element contains the description of the study.

- 6. **MAY** contain zero or one [0..1] **text** (CONF:81-9215).
 - a. The text, if present, **SHOULD** contain zero or one [0..1] **reference** (CONF:81-15995).
 - i. The reference, if present, **SHOULD** contain zero or one [0..1] @value (CONF:81-15996).
 - 1. This reference/@value **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:81-15997).

If present, the effectiveTime contains the time the study was started

- 7. **SHOULD** contain zero or one [0..1] **effectiveTime** (CONF:81-9216).
- 8. SHALL contain at least one [1..*] entryRelationship (CONF:81-9219) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="COMP" Component (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 **STATIC**) (CONF:81-9220).
 - b. **SHALL** contain exactly one [1..1] **Series Act** (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.63) (CONF:81-15937).

Figure 224: Study Act Example

3.104Substance Administered Act

[act: identifier urn:oid:2.16.840.1.113883.10.20.22.4.118 (open)]

Table 490: Substance Administered Act Contexts

Contained By:	Contains:
Medication Activity (V2) (optional)	
Immunization Activity (V3) (optional)	