

1	Status	Final Text
2	Date of Last Update	2019/01/25
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7	Submission Date	2018/06/07

8	Correction Number CP-1838	
9	Log Summary: Additions to Breast Imaging Report	
10	Name of Standard	
11	PS3.6, 3.16 2018e	
12	Rationale for Correction:	
13	The breast imaging report SR templates were drafted with X-Ray Mammography in mind, extended for Ultrasonography, but are	
14	also useful for other modalities, such as MR.	
15	Though a wholesale revision to update the templates to address the most recent versions of BI-RADS may not be justified at this	
16	time, some modest additions are helpful to incorporate implementation experience, particularly with MR, specifically:	
17	<ul style="list-style-type: none"> <li>• Addition of patient characteristics (clinical background) to include clinical course and extension of Subject Context to include racial group</li> </ul>	
18		
19	<ul style="list-style-type: none"> <li>• Addition of HER2/Neu receptor status</li> </ul>	
20	<ul style="list-style-type: none"> <li>• Addition of laterality at finding level, since procedure reported may be bilateral</li> </ul>	
21	<ul style="list-style-type: none"> <li>• Relax pathology sampling date time requirement, since may not be available but data still useful</li> </ul>	
22	<ul style="list-style-type: none"> <li>• Expand the list of breast Procedures reported to include procedures not covered, more specific procedures, and LOINC codes for procedures</li> </ul>	
23		
24	<i>[Ed.Note: SNOMED Request 741386 for 415229000, 438949009, 399307001.]</i>	
25	Correction Wording:	

Add new templates and context groups to DICOM PS3.16:

## TID 4209 Breast Patient Characteristics

**Type:** Extensible  
**Order:** Non-Significant  
**Root:** No

**Table TID 4209. Breast Patient Characteristics**

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
1			CONTAINER	EV (121118, DCM, "Patient Characteristics")	1	M		
5	>	CONTAINS	CODE	EV (11323-3, LN, "Health status")	1	U		BCID 3772 "Health Status"
5	>	CONTAINS	CODE	EV (C35461, NCI, "Clinical course of disease")	1	U		BCID 6098 "Clinical Course of Disease"

## CID 6098 Clinical Course of Disease

**Resources:** HTML | FHIR JSON | FHIR XML | IHE SVS XML  
**Type:** Extensible  
**Version:** 20190125  
**UID:** 1.2.840.10008.6.1.1277

**Table CID 6098. Clinical Course of Disease**

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
NCIt	C40413	No Evidence of Disease		C1518340
NCIt	C38155	Recurrent Disease		C0277556

## CID 6099 Racial Group

### Note

This Context Group is intended to be a set of values that is the union of concepts used in various jurisdictions. It does not distinguish race from ethnic group.

**Resources:** HTML | FHIR JSON | FHIR XML | IHE SVS XML  
**Type:** Extensible  
**Version:** 20190125  
**UID:** 1.2.840.10008.6.1.1278

**Table CID 6099. Racial Group**

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
SRT	S-0004E	African race	413464008	C0027567
SRT	S-00051	Asian race	413582008	C0078988
SRT	S-0003D	Caucasian race	413773004	C0007457
SRT	S-0004B	American Indian or Alaska native	413490006	C1515945

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
NCIt	C41219	Native Hawaiian or other Pacific Islander		C1513907

Amend DICOM PS3.16 as follows (changes to existing text are bold and underlined for additions and ~~struckthrough~~ for removals):

## TID 1001 Observation Context

Specifies attributes of observation context that may be defined, extended or replaced at any location in the SR tree.

This includes attributes that specify:

- who or what the observation is about ("subject context")
- what procedure the observation is about ("procedure context")
- who or what is making the observation ("observer context")

Establishing context includes two aspects of each dimension: identification and description (e.g., patient name and ID vs. patient's age, height or weight).

Whenever one dimension of context is changed or an attribute is added, all attributes of that dimension of context are "flushed", that is they need to be repeated in their entirety. For example, when the subject is changed from patient (name, id) to fetus (number), then the parameters of the patient are discarded. E.g., the patient's ID does not apply to the fetus.

"Extending" the same class and dimension of observation context isn't feasible, since one cannot "null out" or remove a previously set attribute. Any time a dimension of observation context is "replaced", any attributes that are unspecified remain unspecified (i.e., they are not inherited).

**Type:** Non-Extensible  
**Order:** Significant  
**Root:** No

**Table TID 1001. Observation Context**

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
1		HAS OBS CONTEXT	INCLUDE	DTID 1002 "Observer Context"	1-n	MC	Required if all aspects of observer context are not inherited.	Defaults to the attributes of the Author Observer Sequence (0040,A078), or the Verifying Observer Sequence (0040,A073) if the Author Observer Sequence is not present
2		HAS OBS CONTEXT	INCLUDE	DTID 1005 "Procedure Context"	1	MC	Required if all aspects of procedure context are not inherited.	
3		HAS OBS CONTEXT	INCLUDE	DTID 1006 "Subject Context"	1	MC	Required if all aspects of observation subject context are not inherited.	

## TID 1006 Subject Context

This Template contains identifying (and optionally descriptive) attributes of the subject of the observation.

Subject context identifies (and optionally) describes the subject of the observation, whether it be a patient (human or animal), a fetus (human or animal), a specimen, or a device.

**Type:** Non-Extensible  
**Order:** Significant  
**Root:** No

**Table TID 1006. Subject Context**

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
1			CODE	EV (121024, DCM, "Subject Class")	1	MC	IF subject is not the Patient	DCID 271 "Observation Subject Class"  Defaults to (121025, DCM, "Patient")
2			INCLUDE	DTID 1007 "Subject Context, Patient"	1	UC	IFF Row 1 value = (121025, DCM, "Patient") or Row 1 is absent	May be used for human or animal patients
3			INCLUDE	DTID 1008 "Subject Context, Fetus"	1	UC	IFF Row 1 value = (121026, DCM, "Fetus")	May be used for human or animal fetuses
4			INCLUDE	DTID 1009 "Subject Context, Specimen"	1	UC	IFF Row 1 value = (121027, DCM, "Specimen")	
5			INCLUDE	DTID 1010 "Subject Context, Device"	1	UC	IFF Row 1 value = (121192, DCM, "Device Subject")	

## TID 1007 Subject Context, Patient

Identifies (and optionally describes) a patient who is the subject.

**Type:** Extensible  
**Order:** Significant  
**Root:** No

**Table TID 1007. Subject Context, Patient**

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
1			UIDREF	EV (121028, DCM, "Subject UID")	1	U		E.g., SOP Instance UID of Detached Patient Instance
2			PNAME	EV (121029, DCM, "Subject Name")	1	MC	Required if not inherited.	Defaults to value of Patient's Name (0010,0010) in Patient Module
3			CODE	EV (121030, DCM, "Subject ID")	1	MC	Required if not inherited.	Defaults to value of Patient ID (0010,0020) in Patient Module
4			DATE	EV (121031, DCM, "Subject Birth Date")	1	U		Defaults to value of Patient's Birth Date (0010,0030) in Patient Module
5			CODE	EV (121032, DCM, "Subject Sex")	1	U		Defaults to value equivalent to Patient's Sex (0010,0040) in Patient Module  DTID 7455 "Sex"
6			NUM	EV (121033, DCM, "Subject Age")	1	U		Defaults to value of Patient's Age (0010,1010) in Patient Study Module  UNITS = DCID 7456 "Units of Measure for Age"

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
7			CODE	EV (121034, DCM, "Subject Species")	1	MC	Required if not inherited.	DCID 7454 "Animal Taxonomic Rank Values"  Defaults to value of Patient Species Code Sequence (0010,2202) in Patient Module, or if absent, (L-85003, SRT, "homo sapiens").
8			CODE	EV (121035, DCM, "Subject Breed")	1	U		Defaults to value of Patient Breed Code Sequence (0010,2293) in Patient Module  DCID 7480 "Breed"
<u>9</u>			<u>CODE</u>	<u>EV (S-0004D, SRT, "Racial group")</u>	<u>1</u>	<u>U</u>		<u>Defaults to the coded equivalent of the text value of Ethnic Group (0010,2160) in Patient Module, which is defined as "race or ethnic group"</u>  <u>DCID 6099 "Racial Group"</u>

## CID 3772 Health Status

**Resources:** [HTML](#) | [FHIR JSON](#) | [FHIR XML](#) | [IHE SVS XML](#)  
**Type:** Extensible  
**Version:** ~~2007082720190125~~  
**UID:** 1.2.840.10008.6.1.260

Table CID 3772. Health Status

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
<u>SRT</u>	<u>F-05036</u>	<u>Alive</u>	<u>438949009</u>	<u>C2584946</u>
SRT	F-00001	Alive and well	81323004	C0231162
SRT	F-029D4	In remission	313386006	C1277626
SRT	R-209F6	Symptom free	162467007	C0436342
SRT	F-0600C	Chronically ill	161901003	C0581862
SRT	F-06001	Severely ill	271593001	C0424547
SRT	F-00100	Disabled	21134002	C0231170
SRT	F-0351E	Severely disabled	161045001	C0424990
SRT	F-04DA1	Deceased	419099009	C1546956
<u>SRT</u>	<u>F-00FBE</u>	<u>Lost to follow-up</u>	<u>399307001</u>	<u>C1302313</u>

For reference, sample of existing Patient Characteristics templates in DICOM PS3.16:

## TID 5001 OB-GYN Patient Characteristics

Patient Characteristic concepts in this Template, which may replicate attributes in the Patient Study Module, are included here as possible targets of by-reference relationships from other Content Items in the SR tree.

**Note**

Several of the concepts in this Template duplicate concepts in TID 1007 "Subject Context, Patient". The difference in use is that this Template has those concepts as primary observations of the patient, while in TID 1007 "Subject Context, Patient" the concepts are used to set (or reset) the context for other observations.

**Type:** Extensible  
**Order:** Significant  
**Root:** No

**Table TID 5001. OB-GYN Patient Characteristics**

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
1			CONTAINER	EV (121118, DCM, "Patient Characteristics")	1	M		
2	>	CONTAINS	TEXT	EV (121106, DCM, "Comment")	1	U		
3	>	CONTAINS	NUM	EV (8302-2, LN, "Patient Height")	1	U		
4	>	CONTAINS	NUM	EV (29463-7, LN, "Patient Weight")	1	U		
5	>	CONTAINS	NUM	EV (11996-6, LN, "Gravida")	1	U		
6	>	CONTAINS	NUM	EV (11977-6, LN, "Para")	1	U		
7	>	CONTAINS	NUM	EV (11612-9, LN, "Aborta")	1	U		
8	>	CONTAINS	NUM	EV (33065-4, LN, "Ectopic Pregnancies")	1	U		

Amend DICOM PS3.16 as follows (changes to existing text are bold and underlined for additions and ~~struckthrough~~ for removals):

**Breast Imaging Report Templates**

The Templates that comprise the Breast Imaging Report are interconnected as in Figure A-10.

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CP-1838 - Additions to Breast Imaging Report

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**Figure A-10. Breast Imaging Report Template Structure**

**TID 4200 Breast Imaging Report**

This Template forms the content tree that allows a Breast Imaging Report device to describe the results of a radiologist's diagnostic interpretation of Breast Imaging (e.g., X-Ray mammography or breast ultrasound) evidence. This Template, together with its subordinate Templates, describes the results for presentation to clinicians, or for consumption by Breast Imaging Report devices for subsequent Breast Imaging Reports.

This Template shall be instantiated at the Root node only.

See ????.

**Type:** Non-Extensible  
**Order:** Significant  
**Root:** Yes

**Table TID 4200. Breast Imaging Report**

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
1			CONTAINER	EV (111400, DCM, "Breast Imaging Report")	1	M		Root node
2	>	HAS CONCEPT MOD	INCLUDE	DTID 1204 "Language of Content Item and Descendants"	1	M		

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- Final Text -

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
2a	>	HAS OBS CONTEXT	INCLUDE	TID 1001 "Observation Context"	1	U		
<b>2b</b>	<b>&gt;</b>	<b>CONTAINS</b>	<b>INCLUDE</b>	<b>DTID 4209 "Breast Patient Characteristics"</b>	<b>1</b>	<b>U</b>		
3	>	CONTAINS	INCLUDE	DTID 4202 "Breast Imaging Report Narrative"	1	M		
4	>	CONTAINS	INCLUDE	DTID 4208 "Breast Imaging Report Supplementary Data"	1	U		

## TID 4201 Breast Imaging Procedure Reported

A procedure that is reported in a Breast Imaging Report is expressed in this Template. The results of more than one procedure may be included in a single report instance (see TID 4208 "Breast Imaging Report Supplementary Data").

See ????.

**Type:** Non-Extensible  
**Order:** Significant  
**Root:** No

**Table TID 4201. Breast Imaging Procedure Reported**

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
1			CODE	EV (121058, DCM, "Procedure reported")	1	M		DCID 6050 "Breast Procedure Reported"
2	>	HAS CONCEPT MOD	CODE	EV (111464, DCM, "Procedure Modifier")	1-n	U		DCID 6058 "Procedure Modifiers for Breast"
3	>	HAS CONCEPT MOD	CODE	EV (G-C171, SRT, "Laterality")	1	M		DCID 6022 "Side"
4	>	HAS PROPERTIES	CODE	EV (111401, DCM, "Reason for procedure")	1	U		DCID 6051 "Breast Procedure Reason"
5	>>	HAS CONCEPT MOD	CODE	EV (G-D709, SRT, "Relative time")	1	U		DCID 12102 "Temporal Periods Relating to Procedure or Therapy"
6	>>	HAS CONCEPT MOD	CODE	EV (111402, DCM, "Clinical Finding")	1-n	UC	IFF row 4 value is "Clinical Finding"	DCID 6055 "Breast Clinical Finding or Indicated Problem"  Breast Clinical Finding or Indicated Problem
7	>>>	HAS PROPERTIES	CODE	EV (G-C171, SRT, "Laterality")	1	U		DCID 6022 "Side"
8	>	HAS PROPERTIES	DATE	EV (111060, DCM, "Study Date")	1	U		

### Content Item Descriptions

Row 5 "Relative time"	This Content Item indicates whether the value of "Reason for procedure" (row 4) is modified with "pre-" or "follow-up".
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## TID 4202 Breast Imaging Report Narrative

This Template contains the narrative text sub-tree of the content tree of a Breast Imaging Report. The narrative summary may be subdivided into sections with section headings.

See ?????.

**Type:** Non-Extensible  
**Order:** Significant  
**Root:** No

**Table TID 4202. Breast Imaging Report Narrative**

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
1			CONTAINER	EV (111412, DCM, "Narrative Summary")	1	M		
2	>	CONTAINS	CONTAINER	BCID 6052 "Breast Imaging Report Section Title"	1-n	M		
3	>>	HAS OBS CONTEXT	INCLUDE	DTID 1002 "Observer Context"	1-n	U		
4	>>	CONTAINS	TEXT	BCID 5053 "Breast Imaging Report Elements"	1	M		
5	>>>	INFERRED FROM	INCLUDE	DTID "References to Supporting Evidence"	1	U		

## TID 4203 Breast Imaging Assessment

This Template provides the content of a Breast Imaging Assessment, for an overall assessment section for the entire report (see TID 4208 "Breast Imaging Report Supplementary Data") or an assessment of a particular finding (see TID 4206 "Breast Imaging Report Finding Section"). This Template defines a code-based assessment of the interpretation results.

See ?????.

**Type:** Non-Extensible  
**Order:** Significant  
**Root:** No

**Table TID 4203. Breast Imaging Assessment**

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
1			CODE	EV (111005, DCM, "Assessment Category")	1	M		DCID 6026 "Mammography Assessment"
2			CODE	EV (111053, DCM, "Recommended Follow-up")	1-n	U		BCID 6028 "Mammography Recommended Follow-up"
3	>	HAS CONCEPT MOD	CODE	EV (G-C171, SRT, "Laterality")	1	U		DCID 6022 "Side"
4	>	HAS PROPERTIES	NUM	EV (111055, DCM, "Recommended Follow-up Interval")	1	U		UNITS = DCID 6046 "Units of Follow-up Interval"  Values = Integer ≥ 0, where 0 = immediate follow-up

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
5	>	HAS PROPERTIES	DATE	EV (111054, DCM, "Recommended Follow-up Date")	1	U		
6	>	HAS PROPERTIES	INCLUDE	DTID 4207 "Breast Imaging Pathology Results"	1-n	U		

## TID 4206 Breast Imaging Report Finding Section

This Template defines a supplementary data section for the Findings of the Breast Imaging Report. It is included from TID 4208 "Breast Imaging Report Supplementary Data".

**Type:** Extensible  
**Order:** Significant  
**Root:** No

**Table TID 4206. Breast Imaging Report Finding Section**

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
1			CONTAINER	EV (121070, DCM, "Findings")	1	M		
2	>	HAS OBS CONTEXT	INCLUDE	DTID 1002 "Observer Context"	1-n	U		
3	>	CONTAINS	INCLUDE	DTID 4201 "Breast Imaging Procedure Reported"	1	M		
4	>	CONTAINS	CODE	EV (121071, DCM, "Finding")	1-n	M		DCID 6054 "Breast Imaging Findings"
5	>>	HAS CONCEPT MOD	CODE	EV (111405, DCM, "Implant type")	1-n	UC	May be present if value of row 4 is (A-04010, SRT, "Implant")	DCID 6059 "Breast Implant Types"
<b>5b</b>	<b>&gt;&gt;</b>	<b>HAS CONCEPT MOD</b>	<b>CODE</b>	<b>EV (G-C171, SRT, "Laterality")</b>	<b>1</b>	<b>U</b>		<b>DCID 6022 "Side"</b>
6	>>	HAS PROPERTIES	INCLUDE	DTID 4203 "Breast Imaging Assessment"	1	U		
...								
9	>>	HAS PROPERTIES	INCLUDE	DTID 1400 "Linear Measurement"	1-n	U		
10	>>	HAS PROPERTIES	INCLUDE	DTID 1401 "Area Measurement"	1-n	U		
11	>>	HAS PROPERTIES	INCLUDE	DTID 1402 "Volume Measurement"	1-n	U		
12	>>	HAS PROPERTIES	CODE	EV (111020, DCM, "Depth")	1	U		DCID 6024 "Depth"
...								

### Content Item Descriptions

<b>Row 5b</b>	<b><u>The laterality of the finding may be different from the laterality of the procedure specified in Row 3, if the latter is undefined or bilateral. If this content item is absent, the laterality of the procedure is assumed to apply. The laterality of the finding may be bilateral.</u></b>
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## TID 4207 Breast Imaging Pathology Results

This Template defines the pathology results for a procedure. It may be applied to a Breast Imaging Assessment (see TID 4203 "Breast Imaging Assessment"), or a Breast Imaging Intervention (see TID 4204 "Breast Imaging Report Intervention Section").

**Type:** Extensible  
**Order:** Significant  
**Root:** No

**Table TID 4207. Breast Imaging Pathology Results**

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
1			CONTAINER	EV (111468, DCM, "Pathology Results")	1	M		
2	>	CONTAINS	INCLUDE	DTID 4201 "Breast Imaging Procedure Reported"	1	U		
3	>	CONTAINS	DATETIME	EV (111469, DCM, "Sampling DateTime")	1	<b>MU</b>		
4	>	CONTAINS	CODE	EV (122177, DCM, "Procedure Result")	1	M		DCID 6063 "Interventional Procedure Results"
5	>	CONTAINS	CODE	EV (111042, DCM, "Pathology")	1-n	U		BCID 6030 "Mammography Pathology Codes"
6	>>	HAS PROPERTIES	CODE	EV (111388, DCM, "Malignancy Type")	1	U		DCID 6159 "Malignancy Type"
7	>>	HAS PROPERTIES	NUM	DCID 6165 "Breast Linear Measurements"	1-n	U		UNITS = EV (mm, UCUM, "millimeter")
8	>>	HAS PROPERTIES	CODE	EV (F-02900, SRT, "Histological grade finding")	1	U		BCID 6069 "Nottingham Combined Histologic Grade"  BCID 6070 "Bloom-Richardson Histologic Grade"
9	>>>	HAS CONCEPT MOD	CODE	EV (R-00258, SRT, "Histologic grade")	1	U		BCID 6071 "Histologic Grading Method"
10	>>	HAS PROPERTIES	CODE	EV (R-00274, SRT, "Tumor margin status")	1	U		DT (111470, DCM, "Uninvolved"),  DT (111471, DCM, "Involved")
11	>>	HAS PROPERTIES	CODE	EV (111472, DCM, "Nipple involved")	1	U		DCID 230 "Yes-No"
12	>>	HAS PROPERTIES	NUM	EV (111473, DCM, "Number of nodes removed")	1	U		UNITS = EV ({nodes}, UCUM, "nodes")

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
13	>>	HAS PROPERTIES	NUM	EV (111474, DCM, "Number of nodes positive")	1	MC	Shall be present IFF value of row 12 is > 0	UNITS = EV ({nodes}, UCUM, "nodes")
14	>>	HAS PROPERTIES	CODE	EV (R-00465, SRT, "pT category finding")	1	U		DCID 6160 "Breast Primary Tumor Assessment From AJCC"
15	>>	HAS PROPERTIES	CODE	EV (R-00463, SRT, "Node stage finding")	1	U		DCID 6161 "Clinical Regional Lymph Node Assessment for Breast"
16	>>	HAS PROPERTIES	CODE	EV (R-00461, SRT, "Metastasis stage finding")	1	U		DCID 6162 "Assessment of Metastasis for Breast"
17	>>	HAS PROPERTIES	CODE	EV (R-00443, SRT, "Tumor stage finding")	1	U		BCID 6068 "Tumor Stages From AJCC"
18	>>	HAS PROPERTIES	CODE	EV (111475, DCM, "Estrogen receptor")	1	U		DCID 250 "Positive-Negative"
19	>>	HAS PROPERTIES	CODE	EV (111476, DCM, "Progesterone receptor")	1	U		DCID 250 "Positive-Negative"
20	>>	HAS PROPERTIES	NUM	EV (111477, DCM, "S Phase")	1	U		UNITS = EV (% , UCUM, "percent")
<b>21</b>	<b>&gt;&gt;</b>	<b>HAS PROPERTIES</b>	<b>CODE</b>	<b>EV (48676-1, LN, "HER2")</b>	<b>1</b>	<b>U</b>		<b>DCID 250 "Positive-Negative"</b>

## TID 4208 Breast Imaging Report Supplementary Data

This Template forms a supplementary data sub-tree of the content tree of a Breast Imaging Report. Each subsection provides a specific type of supporting evidence to the narrative text sub-tree, for example, as coded and numeric data.

See ????

**Type:** Non-Extensible  
**Order:** Significant  
**Root:** No

**Table TID 4208. Breast Imaging Report Supplementary Data**

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
1			CONTAINER	EV (111414, DCM, "Supplementary Data")	1	M		
2	>	CONTAINS	INCLUDE	DTID 4201 "Breast Imaging Procedure Reported"	1-n	M		
3	>	CONTAINS	CODE	EV (111403, DCM, "Baseline screening mammogram")	1	U		DCID 230 "Yes-No"
4	>	CONTAINS	CODE	EV (111404, DCM, "First mammogram ever")	1	U		DCID 230 "Yes-No"
5	>	CONTAINS	INCLUDE	DTID 4205 "Breast Composition Section"	1	U		
6	>	CONTAINS	INCLUDE	DTID 4206 "Breast Imaging Report Finding Section"	1-n	U		

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
7	>	CONTAINS	INCLUDE	DTID 4204 "Breast Imaging Report Intervention Section".	1-n	U		
8	>	CONTAINS	CONTAINER	EV (111413, DCM, "Overall Assessment")	1	U		
9	>>	CONTAINS	INCLUDE	DTID 4203 "Breast Imaging Assessment"	1	M		

## CID 230 Yes-No

**Resources:** HTML | FHIR JSON | FHIR XML | IHE SVS XML  
**Type:** Non-Extensible  
**Version:** 20060613  
**UID:** 1.2.840.10008.6.1.34

Table CID 230. Yes-No

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
SRT	R-0038D	Yes	373066001	C1298907
SRT	R-00339	No	373067005	C1298908
SRT	R-0038A	Undetermined	373068000	C3536725

## CID 250 Positive-Negative

**Resources:** HTML | FHIR JSON | FHIR XML | IHE SVS XML  
**Type:** Extensible  
**Version:** 20040112  
**UID:** 1.2.840.10008.6.1.38

Table CID 250. Positive-Negative

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
SRT	G-A200	Positive	10828004	C1446409
SRT	R-40759	Negative	260385009	C0205160

## CID 6022 Side

### Note

In future extensions, Side terms that are not derived from BI-RADS® should be added to this context group.

**Resources:** HTML | FHIR JSON | FHIR XML | IHE SVS XML  
**Type:** Non-Extensible  
**Version:** 20020904  
**UID:** 1.2.840.10008.6.1.352

Table CID 6022. Side

Coding Scheme Designator	Code Value	Code Meaning
Include CID 6023 "Side from BI-RADS®"		

## CID 6023 Side from BI-RADS®

### Note

From BI-RADS® Third Edition (National Mammography Database, E98)

**Resources:** HTML | FHIR JSON | FHIR XML | IHE SVS XML  
**Type:** Non-Extensible  
**Version:** 20020904  
**UID:** 1.2.840.10008.6.1.353

**Table CID 6023. Side from BI-RADS®**

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
SRT	T-04030	Left breast	80248007	C0222601
SRT	T-04020	Right breast	73056007	C0222600
SRT	T-04080	Both breasts	63762007	C0222605

## CID 6050 Breast Procedure Reported

**Resources:** HTML | FHIR JSON | FHIR XML | IHE SVS XML  
**Type:** Extensible  
**Version:** ~~20090819~~20190125  
**UID:** 1.2.840.10008.6.1.379

**Table CID 6050. Breast Procedure Reported**

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
DCM	111408	Film Screen Mammography		
DCM	111409	Digital Mammography		
SRT	P5-B8500	Ultrasonography of breast	47079000	C0080264
SRT	P5-0900D	MRI of breast	241615005	C0344104
SRT	P1-48011	Pre-biopsy localization of breast lesion	237380007	C0473515
SRT	P1-48145	Fine needle aspiration of breast	387736007	C0542415
SRT	P1-48142	Diagnostic aspiration of breast cyst	287572003	C0565162
SRT	P1-48304	Core needle biopsy of breast	44578009	C0191853
SRT	P1-4830F	Breast - surgical biopsy	274331003	C0585992
SRT	P5-40060	Mammary ductogram	18102001	C0203033
SRT	P5-0801C	CT of breast	241539009	C0412609
SRT	P5-D0042	Radionuclide localization of tumor, limited area	66377006	C0203652
SRT	P5-40030	Specimen radiography of breast	80865008	C0203031
SRT	P2-4A000	Examination of breast	46662001	C0199850
DCM	111410	Surgical consult		
DCM	111411	Mammography CAD		
SRT	P1-65359	Sentinel lymph node biopsy	396487001	C0796693
SRT	P5-D0061	Radioisotope scan of lymphatic system	169167001	C0412375
DCM	111123	Marker placement		

Coding Scheme Designator	Code Value	Code Meaning	SNOMED-CT Concept ID	UMLS Concept Unique ID
SRT	P1-05535	Insertion of catheter	45211000	C0007430
<u>LN</u>	<u>36626-0</u>	<u>breast - bilateral mammogram</u>		C1524974
<u>LN</u>	<u>30795-9</u>	<u>breast - bilateral mr</u>		C1114600
<u>LN</u>	<u>36150-1</u>	<u>breast - bilateral mr w contrast iv</u>		C1524494
<u>LN</u>	<u>36277-2</u>	<u>breast - bilateral mr wo and w contrast iv</u>		C1524125
<u>LN</u>	<u>46342-2</u>	<u>breast ffd mammogram</u>		C1830243
<u>LN</u>	<u>36627-8</u>	<u>breast - left mammogram</u>		C1524975
<u>LN</u>	<u>35954-7</u>	<u>breast - left mr</u>		C1524349
<u>LN</u>	<u>36151-9</u>	<u>breast - left mr w contrast iv</u>		C1524495
<u>LN</u>	<u>36278-0</u>	<u>breast - left mr wo and w contrast iv</u>		C1524126
<u>LN</u>	<u>36149-3</u>	<u>breast mr w contrast iv</u>		C1524493
<u>LN</u>	<u>36276-4</u>	<u>breast mr wo and w contrast iv</u>		C1524610
<u>LN</u>	<u>37774-7</u>	<u>breast - right mammogram</u>		C1525124
<u>LN</u>	<u>35955-4</u>	<u>breast - right mr</u>		C1524350
<u>LN</u>	<u>36152-7</u>	<u>breast - right mr w contrast iv</u>		C1524496
<u>LN</u>	<u>36279-8</u>	<u>breast - right mr wo and w contrast iv</u>		C1524127
<u>LN</u>	<u>36279-8</u>	<u>breast - right mr wo and w contrast iv</u>		C1524127
<u>LN</u>	<u>46339-8</u>	<u>breast - unilateral mammogram</u>		C1830240
<u>LN</u>	<u>46299-4</u>	<u>breast - unilateral mr</u>		C1830200
<u>LN</u>	<u>46323-2</u>	<u>breast - unilateral mr w contrast iv</u>		C1830224
<u>LN</u>	<u>43528-9</u>	<u>breast - unilateral mr wo and w contrast iv</u>		C1714927
<u>LN</u>	<u>46333-1</u>	<u>breast - unilateral mr wo contrast</u>		C1830234
<u>LN</u>	<u>46305-9</u>	<u>whole body ct</u>		C1830206
<u>LN</u>	<u>44139-4</u>	<u>whole body pt w rnc iv</u>		C1715409

#### Note

- (P5-0900D, SRT, "MRI of breast") is used historically in preference to (30794-2, LN, "breast mr") even though LOINC is used for more specific pre-coordinated concepts.
- (46342-2, LN, "breast ffd mammogram") is specific to full field digital mammography, which is not explicit in the definition of (111409, DCM, "Digital Mammography").

*For reference, definition of concepts DICOM PS3.16:*

## D DICOM Controlled Terminology Definitions (Normative)

**Table D-1. DICOM Controlled Terminology Definitions (Coding Scheme Designator "DCM" Coding Scheme Version "01")**

Code Value	Code Meaning	Definition	Notes
111408	Film Screen Mammography	Mammogram using traditional X-Ray film.	
111409	Digital Mammography	Mammogram using a digital image acquisition system.	

Add new context groups to DICOM PS3.6:

## A Registry of DICOM Unique Identifiers (UIDs) (Normative)

Table A-3. Context Group UID Values

Context UID	Context Identifier	Context Group Name	Comment
1.2.840.10008.6.1.1277	CID 6098	CID 6098	
1.2.840.10008.6.1.1278	CID 6099	CID 6099	