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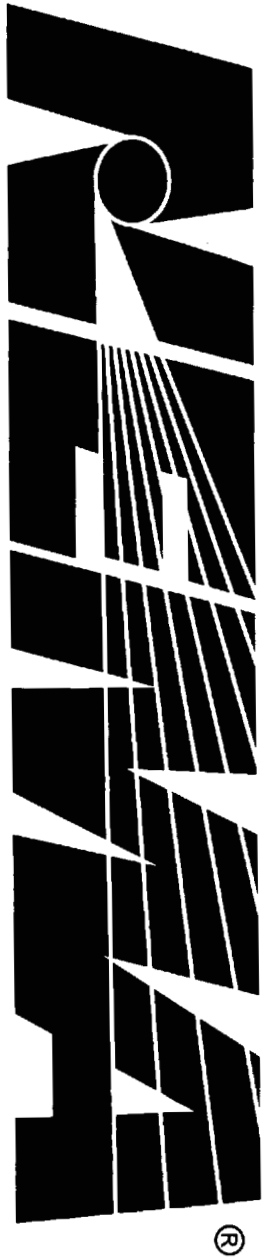
DICOM

Part 6

Data Dictionary



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Digital Imaging and Communications in Medicine (DICOM)

Part 6: Data Dictionary

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FOREWORD

The American College of Radiology (ACR) and the National Electrical Manufacturers Association (NEMA) formed a joint committee to develop a standard for Digital Imaging and Communications in Medicine (DICOM). This DICOM Standard was developed according to the NEMA procedures.

This standard is developed in liaison with other standardization organizations including CEN TC251 in Europe and JIRA in Japan, with review also by other organizations including IEEE, HL7 and ANSI in the USA.

The DICOM Standard is structured as a multi-part document using the guidelines established in the following document:

ISO/IEC Directives, 1989 Part 3 : Drafting and Presentation of International Standards.

This document is one part of the DICOM Standard which consists of the following parts:

PS 3.1: Introduction and Overview
PS 3.2: Conformance
PS 3.3: Information Object Definitions
PS 3.4: Service Class Specifications
PS 3.5: Data Structures and Encoding
PS 3.6: Data Dictionary
PS 3.7: Message Exchange
PS 3.8: Network Communication Support for Message Exchange
PS 3.9: Point-to-Point Communication Support for Message Exchange
PS 3.10: Media Storage and File Format for Media Interchange
PS 3.11: Media Storage Application Profiles
PS 3.12: Media Formats and Physical Media for Media Interchange
PS 3.13: Print Management Point-to-Point Communication Support
PS 3.14: Grayscale Standard Display Function
PS 3.15: Security Profiles

These parts are related but independent documents. Their development level and approval status may differ. Additional parts may be added to this multi-part standard. PS 3.1 should be used as the base reference for the current parts of this standard.

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1 Scope and field of application

This part of the DICOM Standard is PS 3.6 of a multi-part standard produced to facilitate the interchange of information between digital imaging computer systems in medical environments. This interchange will enhance diagnostic imaging and potentially other clinical applications. The multi-part DICOM Standard covers the protocols and data that shall be supplied to achieve this interchange of information.

This part of the standard contains the registry of all DICOM Data Elements and all DICOM Unique Identifiers that are defined within the DICOM Standard.

2 Normative references

The following standards contain provisions that, through references in this text, constitute provisions of this standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this standard are encouraged to investigate the possibilities of applying the most recent editions of the standards indicated below.

ACR-NEMA 300-1988 Digital Imaging and Communications

ISO 8649:1988 Information processing systems - Open Systems Interconnection - Service definition for the Association Control Service Element (ACSE).

ISO 8822:1988 Information processing systems - Open Systems Interconnection - Connection oriented presentation service definition.

ISO/IEC Directives, 1989 Part 3 - Drafting and presentation of International Standards.

3 Definitions

For the purposes of this standard, the following definitions apply.

3.1 DICOM INTRODUCTION AND OVERVIEW DEFINITION

This part of the standard makes use of the following term defined in PS 3.1:

- Attribute

3.2 DICOM INFORMATION OBJECT DEFINITION

This part of the standard makes use of the following term defined in PS 3.3:

- Attribute Tag

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3.3 DICOM DATA STRUCTURES AND ENCODING DEFINITIONS

This part of the standard makes use of the following terms defined in PS 3.5:

a. Data Element
b. Data Element Tag
c. Element Number
d. Group Number
e. Repeating Group
f. Retired Data Element
g. Standard Data Element
h. Value Multiplicity (VM)
i. Value Representation (VR)

3.4 DICOM DATA DICTIONARY

The following definition is commonly used in this Standard:

Tag: A unique identifier for an element of information composed of an ordered pair of numbers (a Group Number followed by an Element Number), which is used to identify Attributes and corresponding Data Elements.

4 Symbols and abbreviations

The following symbols and abbreviations are used in this Standard.

ACR	American College of Radiology
DICOM	Digital Imaging and Communications in Medicine
IOD	Information Object Definition
ISO	International Standards Organization
NEMA	National Electrical Manufacturers Association
OSI	Open Systems Interconnection
TCP/IP	Transmission Control Protocol/Internet Protocol
UID	Unique Identifier
VM	Value Multiplicity
VR	Value Representation

5 Conventions

Word(s) are capitalized in this document to help the reader understand that these word(s) have been previously defined in Section 3 and are to be interpreted with that meaning.

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A Data Element Tag is represented as (gggg,eeee), where gggg equates to the Group Number and eeee equates to the Element Number within that Group. Data Element Tags are represented in hexadecimal notation as specified for each named Data Element in this Standard.

"RET" is used to indicate that the corresponding Data Element, SOP Class, or Transfer Syntax has been retired. Retired items are shown italicized.

Note: The use of retired items is supported in this version of DICOM. However, new implementations are strongly encouraged to implement alternative Data Elements, SOP Classes or Transfer Syntaxes.

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6 Registry of DICOM data elements

Tag	Name	VR	VM	
(0008,0001)	*Length to End*			*RET*
(0008,0005)	Specific Character Set	CS	1-n	
(0008,0008)	Image Type	CS	1-n	
(0008,0010)	*Recognition Code*			*RET*
(0008,0012)	Instance Creation Date	DA	1	
(0008,0013)	Instance Creation Time	TM	1	
(0008,0014)	Instance Creator UID	UI	1	
(0008,0016)	SOP Class UID	UI	1	
(0008,0018)	SOP Instance UID	UI	1	
(0008,0020)	Study Date	DA	1	
(0008,0021)	Series Date	DA	1	
(0008,0022)	Acquisition Date	DA	1	
(0008,0023)	Content Date	DA	1	
(0008,0024)	*Overlay Date*	DA	1	
(0008,0025)	Curve Date	DA	1	
(0008,002A)	Acquisition Datetime	DT	1	
(0008,0030)	Study Time	TM	1	
(0008,0031)	Series Time	TM	1	
(0008,0032)	Acquisition Time	TM	1	
(0008,0033)	Content Time	TM	1	
(0008,0034)	*Overlay Time*	TM	1	
(0008,0035)	Curve Time	TM	1	
(0008,0040)	*Data Set Type*			*RET*
(0008,0041)	*Data Set Subtype*			*RET*
(0008,0042)	*Nuclear Medicine Series Type*	*CS*	*1*	*RET*
(0008,0050)	Accession Number	SH	1	

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Tag	Name	VR	VM	
(0008,0052)	Query/Retrieve Level	CS	1	
(0008,0054)	Retrieve AE Title	AE	1-n	
(0008,0056)	Instance Availability	CS	1	
(0008,0058)	Failed SOP Instance UID List	UI	1-n	
(0008,0060)	Modality	CS	1	
(0008,0061)	Modalities in Study	CS	1-n	
(0008,0064)	Conversion Type	CS	1	
(0008,0068)	Presentation Intent Type	CS	1	
(0008,0070)	Manufacturer	LO	1	
(0008,0080)	Institution Name	LO	1	
(0008,0081)	Institution Address	ST	1	
(0008,0082)	Institution Code Sequence	SQ	1	
(0008,0090)	Referring Physician's Name	PN	1	
(0008,0092)	Referring Physician's Address	ST	1	
(0008,0094)	Referring Physician's Telephone Numbers	SH	1-n	
(0008,0100)	Code Value	SH	1	
(0008,0102)	Coding Scheme Designator	SH	1	
(0008,0103)	Coding Scheme Version	SH	1	
(0008,0104)	Code Meaning	LO	1	
(0008,0105)	Mapping Resource	CS	1	
(0008,0106)	Context Group Version	DT	1	
(0008,0107)	Context Group Local Version	DT	1	
(0008,010B)	Code Set Extension Flag	CS	1	
(0008,010C)	Private Coding Scheme Creator UID	UI	1	
(0008,010D)	Code Set Extension Creator UID	UI	1	
(0008,010F)	Context Identifier	CS	1	
(0008,0201)	Timezone Offset From UTC	SH	1	
(0008,1000)	*Network ID*			*RET*
(0008,1010)	Station Name	SH	1	
(0008,1030)	Study Description	LO	1	

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Tag	Name	VR	VM	
(0008,1032)	Procedure Code Sequence	SQ	1	
(0008,103E)	Series Description	LO	1	
(0008,1040)	Institutional Department Name	LO	1	
(0008,1048)	Physician(s) of Record	PN	1-n	
(0008,1050)	Performing Physician's Name	PN	1-n	
(0008,1060)	Name of Physician(s) Reading Study	PN	1-n	
(0008,1070)	Operators' Name	PN	1-n	
(0008,1080)	Admitting Diagnoses Description	LO	1-n	
(0008,1084)	Admitting Diagnosis Code Sequence	SQ	1	
(0008,1090)	Manufacturer's Model Name	LO	1	
(0008,1100)	Referenced Results Sequence	SQ	1	
(0008,1110)	Referenced Study Sequence	SQ	1	
(0008,1111)	Referenced Study Component Sequence	SQ	1	
(0008,1115)	Referenced Series Sequence	SQ	1	
(0008,1120)	Referenced Patient Sequence	SQ	1	
(0008,1125)	Referenced Visit Sequence	SQ	1	
(0008,1130)	Referenced Overlay Sequence	SQ	1	
(0008,1140)	Referenced Image Sequence	SQ	1	
(0008,1145)	Referenced Curve Sequence	SQ	1	
(0008,1150)	Referenced SOP Class UID	UI	1	
(0008,1155)	Referenced SOP Instance UID	UI	1	
(0008,115A)	SOP Classes Supported	UI	1-n	
(0008,1160)	Referenced Frame Number	IS	1-n	
(0008,1195)	Transaction UID	UI	1	
(0008,1197)	Failure Reason	US	1	
(0008,1198)	Failed SOP Sequence	SQ	1	
(0008,1199)	Referenced SOP Sequence	SQ	1	
(0008,2110)	*Lossy Image Compression*	*CS*	*1*	*RET*
(0008,2111)	Derivation Description	ST	1	
(0008,2112)	Source Image Sequence	SQ	1	
(0008,2120)	Stage Name	SH	1	

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Tag	Name	VR	VM	
(0008,2122)	Stage Number	IS	1	
(0008,2124)	Number of Stages	IS	1	
(0008,2128)	View Number	IS	1	
(0008,2129)	Number of Event Timers	IS	1	
(0008,212A)	Number of Views in Stage	IS	1	
(0008,2130)	Event Elapsed Time(s)	DS	1-n	
(0008,2132)	Event Timer Name(s)	LO	1-n	
(0008,2142)	Start Trim	IS	1	
(0008,2143)	Stop Trim	IS	1	
(0008,2144)	Recommended Display Frame Rate	IS	1	
(0008,2200)	*Transducer Position*	*CS*	*1*	*RET*
(0008,2204)	*Transducer Orientation*	*CS*	*1*	*RET*
(0008,2208)	*Anatomic Structure*	*CS*	*1*	*RET*
(0008,2218)	Anatomic Region Sequence	SQ	1	
(0008,2220)	Anatomic Region Modifier Sequence	SQ	1	
(0008,2228)	Primary Anatomic Structure Sequence	SQ	1	
(0008,2229)	Anatomic Structure, Space or Region Sequence	SQ	1	
(0008,2230)	Primary Anatomic Structure Modifier Sequence	SQ	1	
(0008,2240)	Transducer Position Sequence	SQ	1	
(0008,2242)	Transducer Position Modifier Sequence	SQ	1	
(0008,2244)	Transducer Orientation Sequence	SQ	1	
(0008,2246)	Transducer Orientation Modifier Sequence	SQ	1	
(0008,4000)	*Comments*			*RET*

Tag	Name	VR	VM
(0010,0010)	Patient's Name	PN	1
(0010,0020)	Patient ID	LO	1
(0010,0021)	Issuer of Patient ID	LO	1
(0010,0030)	Patient's Birth Date	DA	1

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Tag	Name	VR	VM	
(0010,0032)	Patient's Birth Time	TM	1	
(0010,0040)	Patient's Sex	CS	1	
(0010,0050)	Patient's Insurance Plan Code Sequence	SQ	1	
(0010,1000)	Other Patient IDs	LO	1-n	
(0010,1001)	Other Patient Names	PN	1-n	
(0010,1005)	Patient's Birth Name	PN	1	
(0010,1010)	Patient's Age	AS	1	
(0010,1020)	Patient's Size	DS	1	
(0010,1030)	Patient's Weight	DS	1	
(0010,1040)	Patient's Address	LO	1	
(0010,1050)	*Insurance Plan Identification*			*RET*
(0010,1060)	Patient's Mother's Birth Name	PN	1	
(0010,1080)	Military Rank	LO	1	
(0010,1081)	Branch of Service	LO	1	
(0010,1090)	Medical Record Locator	LO	1	
(0010,2000)	Medical Alerts	LO	1-n	
(0010,2110)	Contrast Allergies	LO	1-n	
(0010,2150)	Country of Residence	LO	1	
(0010,2152)	Region of Residence	LO	1	
(0010,2154)	Patient's Telephone Numbers	SH	1-n	
(0010,2160)	Ethnic Group	SH	1	
(0010,2180)	Occupation	SH	1	
(0010,21A0)	Smoking Status	CS	1	
(0010,21B0)	Additional Patient History	LT	1	
(0010,21C0)	Pregnancy Status	US	1	
(0010,21D0)	Last Menstrual Date	DA	1	
(0010,21F0)	Patient's Religious Preference	LO	1	
(0010,4000)	Patient Comments	LT	1	

Tag	Name	VR	VM

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Tag	Name	VR	VM	
(0018,0010)	Contrast/Bolus Agent	LO	1	
(0018,0012)	Contrast/Bolus Agent Sequence	SQ	1	
(0018,0014)	Contrast/Bolus Administration Route Sequence	SQ	1	
(0018,0015)	Body Part Examined	CS	1	
(0018,0020)	Scanning Sequence	CS	1-n	
(0018,0021)	Sequence Variant	CS	1-n	
(0018,0022)	Scan Options	CS	1-n	
(0018,0023)	MR Acquisition Type	CS	1	
(0018,0024)	Sequence Name	SH	1	
(0018,0025)	Angio Flag	CS	1	
(0018,0026)	Intervention Drug Information Sequence	SQ	1	
(0018,0027)	Intervention Drug Stop Time	TM	1	
(0018,0028)	Intervention Drug Dose	DS	1	
(0018,0029)	Intervention Drug Code Sequence	SQ	1	
(0018,002A)	Additional Drug Sequence	SQ	1	
(0018,0030)	*Radionuclide*	*LO*	*1-n*	*RET*
(0018,0031)	Radiopharmaceutical	LO	1	
(0018,0032)	*Energy Window Centerline*	*DS*	*1*	*RET*
(0018,0033)	*Energy Window Total Width*	*DS*	*1-n*	*RET*
(0018,0034)	Intervention Drug Name	LO	1	
(0018,0035)	Intervention Drug Start Time	TM	1	
(0018,0036)	Interventional Therapy Sequence	SQ	1	
(0018,0037)	Therapy Type	CS	1	
(0018,0038)	Interventional Status	CS	1	
(0018,0039)	Therapy Description	CS	1	
(0018,0040)	Cine Rate	IS	1	
(0018,0050)	Slice Thickness	DS	1	
(0018,0060)	KVP	DS	1	
(0018,0070)	Counts Accumulated	IS	1	

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Tag	Name	VR	VM
(0018,0071)	Acquisition Termination Condition	CS	1
(0018,0072)	Effective Series Duration	DS	1
(0018,0073)	Acquisition Start Condition	CS	1
(0018,0074)	Acquisition Start Condition Data	IS	1
(0018,0075)	Acquisition Termination Condition Data	IS	1
(0018,0080)	Repetition Time	DS	1
(0018,0081)	Echo Time	DS	1
(0018,0082)	Inversion Time	DS	1
(0018,0083)	Number of Averages	DS	1
(0018,0084)	Imaging Frequency	DS	1
(0018,0085)	Imaged Nucleus	SH	1
(0018,0086)	Echo Number(s)	IS	1-n
(0018,0087)	Magnetic Field Strength	DS	1
(0018,0088)	Spacing Between Slices	DS	1
(0018,0089)	Number of Phase Encoding Steps	IS	1
(0018,0090)	Data Collection Diameter	DS	1
(0018,0091)	Echo Train Length	IS	1
(0018,0093)	Percent Sampling	DS	1
(0018,0094)	Percent Phase Field of View	DS	1
(0018,0095)	Pixel Bandwidth	DS	1
(0018,1000)	Device Serial Number	LO	1
(0018,1004)	Plate ID	LO	1
(0018,1010)	Secondary Capture Device ID	LO	1
(0018,1011)	Hardcopy Creation Device ID	LO	1
(0018,1012)	Date of Secondary Capture	DA	1
(0018,1014)	Time of Secondary Capture	TM	1
(0018,1016)	Secondary Capture Device Manufacturer	LO	1
(0018,1017)	Hardcopy Device Manufacturer	LO	1
(0018,1018)	Secondary Capture Device Manufacturer's Model Name	LO	1
(0018,1019)	Secondary Capture Device Software Version(s)	LO	1-n
(0018,101A)	Hardcopy Device Software Version	LO	1-n

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Tag	Name	VR	VM	
(0018,101B)	Hardcopy Device Manfuacturer's Model Name	LO	1	
(0018,1020)	Software Version(s)	LO	1-n	
(0018,1022)	Video Image Format Acquired	SH	1	
(0018,1023)	Digital Image Format Acquired	LO	1	
(0018,1030)	Protocol Name	LO	1	
(0018,1040)	Contrast/Bolus Route	LO	1	
(0018,1041)	Contrast/Bolus Volume	DS	1	
(0018,1042)	Contrast/Bolus Start Time	TM	1	
(0018,1043)	Contrast/Bolus Stop Time	TM	1	
(0018,1044)	Contrast/Bolus Total Dose	DS	1	
(0018,1045)	Syringe Counts	IS	1	
(0018,1046)	Contrast Flow Rate(s)	DS	1-n	
(0018,1047)	Contrast Flow Duration(s)	DS	1-n	
(0018,1048)	Contrast/Bolus Ingredient	CS	1	
(0018,1049)	Contrast/Bolus Ingredient Concentration	DS	1	
(0018,1050)	Spatial Resolution	DS	1	
(0018,1060)	Trigger Time	DS	1	
(0018,1061)	Trigger Source or Type	LO	1	
(0018,1062)	Nominal Interval	IS	1	
(0018,1063)	Frame Time	DS	1	
(0018,1064)	Framing Type	LO	1	
(0018,1065)	Frame Time Vector	DS	1-n	
(0018,1066)	Frame Delay	DS	1	
(0018,1067)	Image Trigger Delay	DS	1	
(0018,1068)	Multiplex Group Time Offset	DS	1	
(0018,1069)	Trigger Time Offset	DS	1	
(0018,106A)	Synchronization Trigger	CS	1	
(0018,106C)	Synchronization Channel	US	2	
(0018,106E)	Trigger Sample Position	UL	1	
(0018,1070)	*Radionuclide Route*	*LO*	*1-n*	*RET*

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Tag	Name	VR	VM	
(0018,1070)	Radiopharmaceutical Route	LO	1	
(0018,1071)	*Radionuclide Volume*	*DS*	*1-n*	*RET*
(0018,1071)	Radiopharmaceutical Volume	DS	1	
(0018,1072)	*Radionuclide Start Time*	*TM*	*1-n*	*RET*
(0018,1072)	Radiopharmaceutical Start Time	TM	1	
(0018,1073)	*Radionuclide Stop Time*	*TM*	*1-n*	*RET*
(0018,1073)	Radiopharmaceutical Stop Time	TM	1	
(0018,1074)	*Radionuclide Total Dose*	*DS*	*1-n*	*RET*
(0018,1074)	Radionuclide Total Dose	DS	1	
(0018,1075)	Radionuclide Half Life	DS	1	
(0018,1076)	Radionuclide Positron Fraction	DS	1	
(0018,1077)	Radiopharmaceutical Specific Activity	DS	1	
(0018,1080)	Beat Rejection Flag	CS	1	
(0018,1081)	Low R-R Value	IS	1	
(0018,1082)	High R-R Value	IS	1	
(0018,1083)	Intervals Acquired	IS	1	
(0018,1084)	Intervals Rejected	IS	1	
(0018,1085)	PVC Rejection	LO	1	
(0018,1086)	Skip Beats	IS	1	
(0018,1088)	Heart Rate	IS	1	
(0018,1090)	Cardiac Number of Images	IS	1	
(0018,1094)	Trigger Window	IS	1	
(0018,1100)	Reconstruction Diameter	DS	1	
(0018,1110)	Distance Source to Detector	DS	1	
(0018,1111)	Distance Source to Patient	DS	1	
(0018,1114)	Estimated Radiographic Magnification Factor	DS	1	
(0018,1120)	Gantry/Detector Tilt	DS	1	
(0018,1121)	Gantry/Detector Slew	DS	1	
(0018,1130)	Table Height	DS	1	
(0018,1131)	Table Traverse	DS	1	
(0018,1134)	Table Motion	CS	1	

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Tag	Name	VR	VM	
(0018,1135)	Table Vertical Increment	DS	1-n	
(0018,1136)	Table Lateral Increment	DS	1-n	
(0018,1137)	Table Longitudinal Increment	DS	1-n	
(0018,1138)	Table Angle	DS	1	
(0018,113A)	Table Type	CS	1	
(0018,1140)	Rotation Direction	CS	1	
(0018,1141)	Angular Position	DS	1	
(0018,1142)	Radial Position	DS	1-n	
(0018,1143)	Scan Arc	DS	1	
(0018,1144)	Angular Step	DS	1	
(0018,1145)	Center of Rotation Offset	DS	1	
(0018,1146)	*Rotation Offset*	*DS*	*1-n*	*RET*
(0018,1147)	Field of View Shape	CS	1	
(0018,1149)	Field of View Dimension(s)	IS	1-2	
(0018,1150)	Exposure Time	IS	1	
(0018,1151)	X-ray Tube Current	IS	1	
(0018,1152)	Exposure	IS	1	
(0018,1153)	Exposure in uAs	IS	1	
(0018,1154)	Average Pulse Width	DS	1	
(0018,1155)	Radiation Setting	CS	1	
(0018,1156)	Rectification Type	CS	1	
(0018,115A)	Radiation Mode	CS	1	
(0018,115E)	Image Area Dose Product	DS	1	
(0018,1160)	Filter Type	SH	1	
(0018,1161)	Type of Filters	LO	1-n	
(0018,1162)	Intensifier Size	DS	1	
(0018,1164)	Imager Pixel Spacing	DS	2	
(0018,1166)	Grid	CS	1	
(0018,1170)	Generator Power	IS	1	
(0018,1180)	Collimator/grid Name	SH	1	

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Tag	Name	VR	VM	
(0018,1181)	Collimator Type	CS	1	
(0018,1182)	Focal Distance	IS	1-2	
(0018,1183)	X Focus Center	DS	1-2	
(0018,1184)	Y Focus Center	DS	1-2	
(0018,1190)	Focal Spot(s)	DS	1-n	
(0018,1191)	Anode Target Material	CS	1	
(0018,11A0)	Body Part Thickness	DS	1	
(0018,11A2)	Compression Force	DS	1	
(0018,1200)	Date of Last Calibration	DA	1-n	
(0018,1201)	Time of Last Calibration	TM	1-n	
(0018,1210)	Convolution Kernel	SH	1-n	
(0018,1240)	*Upper/Lower Pixel Values*			*RET*
(0018,1242)	Actual Frame Duration	IS	1	
(0018,1243)	Count Rate	IS	1	
(0018,1244)	Preferred Playback Sequencing	US	1	
(0018,1250)	Receiving Coil	SH	1	
(0018,1251)	Transmitting Coil	SH	1	
(0018,1260)	Plate Type	SH	1	
(0018,1261)	Phosphor Type	LO	1	
(0018,1300)	Scan Velocity	DS	1	
(0018,1301)	Whole Body Technique	CS	1-n	
(0018,1302)	Scan Length	IS	1	
(0018,1310)	Acquisition Matrix	US	4	
(0018,1312)	Phase Encoding Direction	CS	1	
(0018,1314)	Flip Angle	DS	1	
(0018,1315)	Variable Flip Angle Flag	CS	1	
(0018,1316)	SAR	DS	1	
(0018,1318)	dB/dt	DS	1	
(0018,1400)	Acquisition Device Processing Description	LO	1	
(0018,1401)	Acquisition Device Processing Code	LO	1	
(0018,1402)	Cassette Orientation	CS	1	

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Tag	Name	VR	VM
(0018,1403)	Cassette Size	CS	1
(0018,1404)	Exposures on Plate	US	1
(0018,1405)	Relative X-ray Exposure	IS	1
(0018,1450)	Column Angulation	CS	1
(0018,1460)	Tomo Layer Height	DS	1
(0018,1470)	Tomo Angle	DS	1
(0018,1480)	Tomo Time	DS	1
(0018,1490)	Tomo Type	CS	1
(0018,1491)	Tomo Class	CS	1
(0018,1495)	Number of Tomosynthesis Source Images	IS	1
(0018,1500)	Positioner Motion	CS	1
(0018,1508)	Positioner Type	CS	1
(0018,1510)	Positioner Primary Angle	DS	1
(0018,1511)	Positioner Secondary Angle	DS	1
(0018,1520)	Positioner Primary Angle Increment	DS	1-n
(0018,1521)	Positioner Secondary Angle Increment	DS	1-n
(0018,1530)	Detector Primary Angle	DS	1
(0018,1531)	Detector Secondary Angle	DS	1
(0018,1600)	Shutter Shape	CS	1-3
(0018,1602)	Shutter Left Vertical Edge	IS	1
(0018,1604)	Shutter Right Vertical Edge	IS	1
(0018,1606)	Shutter Upper Horizontal Edge	IS	1
(0018,1608)	Shutter Lower Horizontal Edge	IS	1
(0018,1610)	Center of Circular Shutter	IS	2
(0018,1612)	Radius of Circular Shutter	IS	1
(0018,1620)	Vertices of the Polygonal Shutter	IS	2-2n
(0018,1622)	Shutter Presentation Value	US	1
(0018,1623)	Shutter Overlay Group	US	1
(0018,1700)	Collimator Shape	CS	1-3
(0018,1702)	Collimator Left Vertical Edge	IS	1

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Tag	Name	VR	VM	
(0018,1704)	Collimator Right Vertical Edge	IS	1	
(0018,1706)	Collimator Upper Horizontal Edge	IS	1	
(0018,1708)	Collimator Lower Horizontal Edge	IS	1	
(0018,1710)	Center of Circular Collimator	IS	2	
(0018,1712)	Radius of Circular Collimator	IS	1	
(0018,1720)	Vertices of the Polygonal Collimator	IS	2-2n	
(0018,1800)	Acquisition Time Synchronized	CS	1	
(0018,1802)	Time Distribution Protocol	CS	1	
(0018,1801)	Time Source	SH	1	
(0018,4000)	*Comments*			*RET*
(0018,5000)	Output Power	SH	1-n	
(0018,5010)	Transducer Data	LO	3	
(0018,5012)	Focus Depth	DS	1	
(0018,5020)	Processing Function	LO	1	
(0018,5021)	Postprocessing Function	LO	1	
(0018,5022)	Mechanical Index	DS	1	
(0018,5024)	Thermal Index	DS	1	
(0018,5026)	Cranial Thermal Index	DS	1	
(0018,5027)	Soft Tissue Thermal Index	DS	1	
(0018,5028)	Soft Tissue-focus Thermal Index	DS	1	
(0018,5029)	Soft Tissue-surface Thermal Index	DS	1	
(0018,5030)	*Dynamic Range*			*RET*
(0018,5040)	*Total Gain*			*RET*
(0018,5050)	Depth of Scan Field	IS	1	
(0018,5100)	Patient Position	CS	1	
(0018,5101)	View Position	CS	1	
(0018,5104)	Projection Eponymous Name Code Sequence	SQ	1	
(0018,5210)	Image Transformation Matrix	DS	6	
(0018,5212)	Image Translation Vector	DS	3	
(0018,6000)	Sensitivity	DS	1	
(0018,6011)	Sequence of Ultrasound Regions	SQ	1	

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Tag	Name	VR	VM
(0018,6012)	Region Spatial Format	US	1
(0018,6014)	Region Data Type	US	1
(0018,6016)	Region Flags	UL	1
(0018,6018)	Region Location Min X_0	UL	1
(0018,601A)	Region Location Min Y_0	UL	1
(0018,601C)	Region Location Max X_1	UL	1
(0018,601E)	Region Location Max Y_1	UL	1
(0018,6020)	Reference Pixel X_0	SL	1
(0018,6022)	Reference Pixel Y_0	SL	1
(0018,6024)	Physical Units X Direction	US	1
(0018,6026)	Physical Units Y Direction	US	1
(0018,6028)	Reference Pixel Physical Value X	FD	1
(0018,602A)	Reference Pixel Physical Value Y	FD	1
(0018,602C)	Physical Delta X	FD	1
(0018,602E)	Physical Delta Y	FD	1
(0018,6030)	Transducer Frequency	UL	1
(0018,6031)	Transducer Type	CS	1
(0018,6032)	Pulse Repetition Frequency	UL	1
(0018,6034)	Doppler Correction Angle	FD	1
(0018,6036)	Steering Angle	FD	1
(0018,6038)	Doppler Sample Volume X Position	UL	1
(0018,603A)	Doppler Sample Volume Y Position	UL	1
(0018,603C)	TM-Line Position X_0	UL	1
(0018,603E)	TM-Line Position Y_0	UL	1
(0018,6040)	TM-Line Position X_1	UL	1
(0018,6042)	TM-Line Position Y_1	UL	1
(0018,6044)	Pixel Component Organization	US	1
(0018,6046)	Pixel Component Mask	UL	1
(0018,6048)	Pixel Component Range Start	UL	1

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Tag	Name	VR	VM
(0018,604A)	Pixel Component Range Stop	UL	1
(0018,604C)	Pixel Component Physical Units	US	1
(0018,604E)	Pixel Component Data Type	US	1
(0018,6050)	Number of Table Break Points	UL	1
(0018,6052)	Table of X Break Points	UL	1-n
(0018,6054)	Table of Y Break Points	FD	1-n
(0018,6056)	Number of Table Entries	UL	1
(0018,6058)	Table of Pixel Values	UL	1-n
(0018,605A)	Table of Parameter Values	FL	1-n
(0018,7000)	Detector Conditions Nominal Flag	CS	1
(0018,7001)	Detector Temperature	DS	1
(0018,7004)	Detector Type	CS	1
(0018,7005)	Detector Configuration	CS	1
(0018,7006)	Detector Description	LT	1
(0018,7008)	Detector Mode	LT	1
(0018,700A)	Detector ID	SH	1
(0018,700C)	Date of Last Detector Calibration	DA	1
(0018,700E)	Time of Last Detector Calibration	TM	1
(0018,7010)	Exposures on Detector Since Last Calibration	IS	1
(0018,7011)	Exposures on Detector Since Manufactured	IS	1
(0018,7012)	Detector Time Since Last Exposure	DS	1
(0018,7014)	Detector Active Time	DS	1
(0018,7016)	Detector Activation Offset From Exposure	DS	1
(0018,701A)	Detector Binning	DS	2
(0018,7020)	Detector Element Physical Size	DS	2
(0018,7022)	Detector Element Spacing	DS	2
(0018,7024)	Detector Active Shape	CS	1
(0018,7026)	Detector Active Dimension(s)	DS	1-2
(0018,7028)	Detector Active Origin	DS	2
(0018,7030)	Field of View Origin	DS	2
(0018,7032)	Field of View Rotation	DS	1

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Tag	Name	VR	VM	
(0018,7034)	Field of View Horizontal Flip	CS	1	
(0018,7040)	Grid Absorbing Material	LT	1	
(0018,7041)	Grid Spacing Material	LT	1	
(0018,7042)	Grid Thickness	DS	1	
(0018,7044)	Grid Pitch	DS	1	
(0018,7046)	Grid Aspect Ratio	IS	2	
(0018,7048)	Grid Period	DS	1	
(0018,704C)	Grid Focal Distance	DS	1	
(0018,7050)	Filter Material	CS	1-n	
(0018,7052)	Filter Thickness Minimum	DS	1-n	
(0018,7054)	Filter Thickness Maximum	DS	1-n	
(0018,7060)	Exposure Control Mode	CS	1	
(0018,7062)	Exposure Control Mode Description	LT	1	
(0018,7064)	Exposure Status	CS	1	
(0018,7065)	Phototimer Setting	DS	1	
(0018,8150)	Exposure Time in µS	DS	1	
(0018,8151)	X-Ray Tube Current in µA	DS	1	

Tag	Name	VR	VM	
(0020,000D)	Study Instance UID	UI	1	
(0020,000E)	Series Instance UID	UI	1	
(0020,0010)	Study ID	SH	1	
(0020,0011)	Series Number	IS	1	
(0020,0012)	Acquisition Number	IS	1	
(0020,0013)	Instance Number	IS	1	
(0020,0014)	*Isotope Number*	*IS*	*1*	*RET*
(0020,0015)	*Phase Number*	*IS*	*1*	*RET*
(0020,0016)	*Interval Number*	*IS*	*1*	*RET*
(0020,0017)	*Time Slot Number*	*IS*	*1*	*RET*

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Tag	Name	VR	VM	
(0020,0018)	*Angle Number*	*IS*	*1*	*RET*
(0020,0019)	Item Number	IS	1	
(0020,0020)	Patient Orientation	CS	2	
(0020,0022)	Overlay Number	IS	1	
(0020,0024)	Curve Number	IS	1	
(0020,0026)	Lookup Table Number	IS	1	
(0020,0030)	*Image Position*			*RET*
(0020,0032)	Image Position (Patient)	DS	3	
(0020,0035)	*Image Orientation*			*RET*
(0020,0037)	Image Orientation (Patient)	DS	6	
(0020,0050)	*Location*			*RET*
(0020,0052)	Frame of Reference UID	UI	1	
(0020,0060)	Laterality	CS	1	
(0020,0062)	Image Laterality	CS	1	
(0020,0070)	*Image Geometry Type*			*RET*
(0020,0080)	*Masking Image*			*RET*
(0020,0100)	Temporal Position Identifier	IS	1	
(0020,0105)	Number of Temporal Positions	IS	1	
(0020,0110)	Temporal Resolution	DS	1	
(0020,0200)	Synchronization Frame of Reference UID	UI	1	
(0020,1000)	Series in Study	IS	1	
(0020,1001)	*Acquisitions in Series*			*RET*
(0020,1002)	Images in Acquisition	IS	1	
(0020,1004)	Acquisitions in Study	IS	1	
(0020,1020)	*Reference*			*RET*
(0020,1040)	Position Reference Indicator	LO	1	
(0020,1041)	Slice Location	DS	1	
(0020,1070)	Other Study Numbers	IS	1-n	
(0020,1200)	Number of Patient Related Studies	IS	1	
(0020,1202)	Number of Patient Related Series	IS	1	
(0020,1204)	Number of Patient Related Instances	IS	1	

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Tag	Name	VR	VM	
(0020,1206)	Number of Study Related Series	IS	1	
(0020,1208)	Number of Study Related Instances	IS	1	
(0020,1209)	Number of Series Related Instances	IS	1	
(0020,3100 to 31FF)	*Source Image IDs*			*RET*
(0020,3401)	*Modifying Device ID*			*RET*
(0020,3402)	*Modified Image ID*			*RET*
(0020,3403)	*Modified Image Date*			*RET*
(0020,3404)	*Modifying Device Manufacturer*			*RET*
(0020,3405)	*Modified Image Time*			*RET*
(0020,3406)	*Modified Image Description*			*RET*
(0020,4000)	Image Comments	LT	1	
(0020,5000)	*Original Image Identification*			*RET*
(0020,5002)	*Original Image Identification Nomenclature*			*RET*

Tag	Name	VR	VM	
(0028,0002)	Samples per Pixel	US	1	
(0028,0004)	Photometric Interpretation	CS	1	
(0028,0005)	*Image Dimensions*			*RET*
(0028,0006)	Planar Configuration	US	1	
(0028,0008)	Number of Frames	IS	1	
(0028,0009)	Frame Increment Pointer	AT	1-n	
(0028,0010)	Rows	US	1	
(0028,0011)	Columns	US	1	
(0028,0012)	Planes	US	1	
(0028,0014)	Ultrasound Color Data Present	US	1	
(0028,0030)	Pixel Spacing	DS	2	
(0028,0031)	Zoom Factor	DS	2	
(0028,0032)	Zoom Center	DS	2	

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Tag	Name	VR	VM	
(0028,0034)	Pixel Aspect Ratio	IS	2	
(0028,0040)	*Image Format*			*RET*
(0028,0050)	*Manipulated Image*			*RET*
(0028,0051)	Corrected Image	CS	1-n	
(0028,0060)	*Compression Code*			*RET*
(0028,0100)	Bits Allocated	US	1	
(0028,0101)	Bits Stored	US	1	
(0028,0102)	High Bit	US	1	
(0028,0103)	Pixel Representation	US	1	
(0028,0104)	*Smallest Valid Pixel Value*			*RET*
(0028,0105)	*Largest Valid Pixel Value*			*RET*
(0028,0106)	Smallest Image Pixel Value	US or SS	1	
(0028,0107)	Largest Image Pixel Value	US or SS	1	
(0028,0108)	Smallest Pixel Value in Series	US or SS	1	
(0028,0109)	Largest Pixel Value in Series	US or SS	1	
(0028,0110)	Smallest Image Pixel Value in Plane	US or SS	1	
(0028,0111)	Largest Image Pixel Value in Plane	US or SS	1	
(0028,0120)	Pixel Padding Value	US or SS	1	
(0028,0200)	*Image Location*			*RET*
(0028,0300)	Quality Control Image	CS	1	
(0028,0301)	Burned In Annotation	CS	1	
(0028,1040)	Pixel Intensity Relationship	CS	1	
(0028,1041)	Pixel Intensity Relationship Sign	SS	1	
(0028,1050)	Window Center	DS	1-n	
(0028,1051)	Window Width	DS	1-n	
(0028,1052)	Rescale Intercept	DS	1	
(0028,1053)	Rescale Slope	DS	1	
(0028,1054)	Rescale Type	LO	1	
(0028,1055)	Window Center & Width Explanation	LO	1-n	
(0028,1080)	*Gray Scale*			*RET*
(0028,1090)	Recommended Viewing Mode	CS	1	

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Tag	Name	VR	VM	
(0028,1100)	*Gray Lookup Table Descriptor*			*RET*
(0028,1101)	Red Palette Color Lookup Table Descriptor	US or SS	3	
(0028,1102)	Green Palette Color Lookup Table Descriptor	US or SS	3	
(0028,1103)	Blue Palette Color Lookup Table Descriptor	US or SS	3	
(0028,1199)	Palette Color Lookup Table UID	UI	1	
(0028,1200)	*Gray Lookup Table Data*			*RET*
(0028,1201)	Red Palette Color Lookup Table Data	OW	1	
(0028,1202)	Green Palette Color Lookup Table Data	OW	1	
(0028,1203)	Blue Palette Color Lookup Table Data	OW	1	
(0028,1221)	Segmented Red Palette Color Lookup Table Data	OW	1	
(0028,1222)	Segmented Green Palette Color Lookup Table Data	OW	1	
(0028,1223)	Segmented Blue Palette Color Lookup Table Data	OW	1	
(0028,1300)	Implant Present	CS	1	
(0028,1350)	Partial View	CS	1	
(0028,1351)	Partial View Description	ST	1	
(0028,2110)	Lossy Image Compression	CS	1	
(0028,2112)	Lossy Image Compression Ratio	DS	1-n	
(0028,3000)	Modality LUT Sequence	SQ	1	
(0028,3002)	LUT Descriptor	US or SS	3	
(0028,3003)	LUT Explanation	LO	1	
(0028,3004)	Modality LUT Type	LO	1	
(0028,3006)	LUT Data	US or SS or OW	1-n 1	
(0028,3010)	VOI LUT Sequence	SQ	1	
(0028,3110)	Softcopy VOI LUT Sequence	SQ	1	
(0028,4000)	*Comments*			*RET*
(0028,5000)	Bi-Plane Acquisition Sequence	SQ	1	
(0028,6010)	Representative Frame Number	US	1	
(0028,6020)	Frame Numbers of Interest (FOI)	US	1-n	
(0028,6022)	Frame(s) of Interest Description	LO	1-n	
(0028,6030)	Mask Pointer(s)	US	1-n	

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Tag	Name	VR	VM
(0028,6040)	R Wave Pointer	US	1-n
(0028,6100)	Mask Subtraction Sequence	SQ	1
(0028,6101)	Mask Operation	CS	1
(0028,6102)	Applicable Frame Range	US	2-2n
(0028,6110)	Mask Frame Numbers	US	1-n
(0028,6112)	Contrast Frame Averaging	US	1
(0028,6114)	Mask Sub-pixel Shift	FL	2
(0028,6120)	TID Offset	SS	1
(0028,6190)	Mask Operation Explanation	ST	1

Tag	Name	VR	VM
(0032,000A)	Study Status ID	CS	1
(0032,000C)	Study Priority ID	CS	1
(0032,0012)	Study ID Issuer	LO	1
(0032,0032)	Study Verified Date	DA	1
(0032,0033)	Study Verified Time	TM	1
(0032,0034)	Study Read Date	DA	1
(0032,0035)	Study Read Time	TM	1
(0032,1000)	Scheduled Study Start Date	DA	1
(0032,1001)	Scheduled Study Start Time	TM	1
(0032,1010)	Scheduled Study Stop Date	DA	1
(0032,1011)	Scheduled Study Stop Time	TM	1
(0032,1020)	Scheduled Study Location	LO	1
(0032,1021)	Scheduled Study Location AE Title(s)	AE	1-n
(0032,1030)	Reason for Study	LO	1
(0032,1032)	Requesting Physician	PN	1
(0032,1033)	Requesting Service	LO	1
(0032,1040)	Study Arrival Date	DA	1
(0032,1041)	Study Arrival Time	TM	1

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Tag	Name	VR	VM
(0032,1050)	Study Completion Date	DA	1
(0032,1051)	Study Completion Time	TM	1
(0032,1055)	Study Component Status ID	CS	1
(0032,1060)	Requested Procedure Description	LO	1
(0032,1064)	Requested Procedure Code Sequence	SQ	1
(0032,1070)	Requested Contrast Agent	LO	1
(0032,4000)	Study Comments	LT	1

Tag	Name	VR	VM
(0038,0004)	Referenced Patient Alias Sequence	SQ	1
(0038,0008)	Visit Status ID	CS	1
(0038,0010)	Admission ID	LO	1
(0038,0011)	Issuer of Admission ID	LO	1
(0038,0016)	Route of Admissions	LO	1
(0038,001A)	Scheduled Admission Date	DA	1
(0038,001B)	Scheduled Admission Time	TM	1
(0038,001C)	Scheduled Discharge Date	DA	1
(0038,001D)	Scheduled Discharge Time	TM	1
(0038,001E)	Scheduled Patient Institution Residence	LO	1
(0038,0020)	Admitting Date	DA	1
(0038,0021)	Admitting Time	TM	1
(0038,0030)	Discharge Date	DA	1
(0038,0032)	Discharge Time	TM	1
(0038,0040)	Discharge Diagnosis Description	LO	1
(0038,0044)	Discharge Diagnosis Code Sequence	SQ	1
(0038,0050)	Special Needs	LO	1
(0038,0300)	Current Patient Location	LO	1
(0038,0400)	Patient's Institution Residence	LO	1
(0038,0500)	Patient State	LO	1

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Tag	Name	VR	VM
(0038,4000)	Visit Comments	LT	1

Tag	Name	VR	VM
(003A,0004)	Waveform Originality	CS	1
(003A,0005)	Number of Waveform Channels	US	1
(003A,0010)	Number of Waveform Samples	UL	1
(003A,001A)	Sampling Frequency	DS	1
(003A,0020)	Multiplex Group Label	SH	1
(003A,0200)	Channel Definition Sequence	SQ	1
(003A,0202)	Waveform Channel Number	IS	1
(003A,0203)	Channel Label	SH	1
(003A,0205)	Channel Status	CS	1-n
(003A,0208)	Channel Source Sequence	SQ	1
(003A,0209)	Channel Source Modifiers Sequence	SQ	1
(003A,020A)	Source Waveform Sequence	SQ	1
(003A,020C)	Channel Derivation Description	LO	1
(003A,0210)	Channel Sensitivity	DS	1
(003A,0211)	Channel Sensitivity Units Sequence	SQ	1
(003A,0212)	Channel Sensitivity Correction Factor	DS	1
(003A,0213)	Channel Baseline	DS	1
(003A,0214)	Channel Time Skew	DS	1
(003A,0215)	Channel Sample Skew	DS	1
(003A,0218)	Channel Offset	DS	1
(003A,021A)	Waveform Bits Stored	US	1
(003A,0220)	Filter Low Frequency	DS	1
(003A,0221)	Filter High Frequency	DS	1
(003A,0222)	Notch Filter Frequency	DS	1
(003A,0223)	Notch Filter Bandwidth	DS	1

Tag	Name	VR	VM

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Tag	Name	VR	VM
(0040,0001)	Scheduled Station AE Title	AE	1-n
(0040,0002)	Scheduled Procedure Step Start Date	DA	1
(0040,0003)	Scheduled Procedure Step Start Time	TM	1
(0040,0004)	Scheduled Procedure Step End Date	DA	1
(0040,0005)	Scheduled Procedure Step End Time	TM	1
(0040,0006)	Scheduled Performing Physician's Name	PN	1
(0040,0007)	Scheduled Procedure Step Description	LO	1
(0040,0008)	Scheduled Action Item Code Sequence	SQ	1
(0040,0009)	Scheduled Procedure Step ID	SH	1
(0040,0010)	Scheduled Station Name	SH	1-n
(0040,0011)	Scheduled Procedure Step Location	SH	1
(0040,0012)	Pre-Medication	LO	1
(0040,0020)	Scheduled Procedure Step Status	CS	1
(0040,0100)	Scheduled Procedure Step Sequence	SQ	1
(0040,0220)	Referenced Standalone SOP Instance Sequence	SQ	1
(0040,0241)	Performed Station AE Title	AE	1
(0040,0242)	Performed Station Name	SH	1
(0040,0243)	Performed Location	SH	1
(0040,0244)	Performed Procedure Step Start Date	DA	1
(0040,0245)	Performed Procedure Step Start Time	TM	1
(0040,0250)	Performed Procedure Step End Date	DA	1
(0040,0251)	Performed Procedure Step End Time	TM	1
(0040,0252)	Performed Procedure Step Status	CS	1
(0040,0253)	Performed Procedure Step ID	SH	1
(0040,0254)	Performed Procedure Step Description	LO	1
(0040,0255)	Performed Procedure Type Description	LO	1
(0040,0260)	Performed Action Item Sequence	SQ	1
(0040,0270)	Scheduled Step Attributes Sequence	SQ	1
(0040,0275)	Request Attributes Sequence	SQ	1

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Tag	Name	VR	VM
(0040,0280)	Comments on the Performed Procedure Steps	ST	1
(0040,0293)	Quantity Sequence	SQ	1
(0040,0294)	Quantity	DS	1
(0040,0295)	Measuring Units Sequence	SQ	1
(0040,0296)	Billing Item Sequence	SQ	1
(0040,0300)	Total Time of Fluoroscopy	US	1
(0040,0301)	Total Number of Exposures	US	1
(0040,0302)	Entrance Dose	US	1
(0040,0303)	Exposed Area	US	1-2
(0040,0306)	Distance Source to Entrance	DS	1
(0040,0307)	Distance Source to Support	DS	1
(0040,0310)	Comments on Radiation Dose	ST	1
(0040,0312)	X-Ray Output	DS	1
(0040,0314)	Half Value Layer	DS	1
(0040,0316)	Organ Dose	DS	1
(0040,0318)	Organ Exposed	CS	1
(0040,0320)	Billing Procedure Step Sequence	SQ	1
(0040,0321)	Film Consumption Sequence	SQ	1
(0040,0324)	Billing Supplies and Devices Sequence	SQ	1
(0040,0330)	Referenced Procedure Step Sequence	SQ	1
(0040,0340)	Performed Series Sequence	SQ	1
(0040,0400)	Comments on the Scheduled Procedure Step	LT	1
(0040,050A)	Specimen Accession Number	LO	1
(0040,0550)	Specimen Sequence	SQ	1
(0040,0551)	Specimen Identifier	LO	1
(0040,059A)	Specimen Type Code Sequence	SQ	1
(0040,0555)	Acquisition Context Sequence	SQ	1
(0040,0556)	Acquisition Context Description	ST	1
(0040,06FA)	Slide Identifier	LO	1
(0040,071A)	Image Center Point Coordinates Sequence	SQ	1
(0040,072A)	X offset in Slide Coordinate System	DS	1

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Tag	Name	VR	VM	
(0040,073A)	Y offset in Slide Coordinate System	DS	1	
(0040,074A)	Z offset in Slide Coordinate System	DS	1	
(0040,08D8)	Pixel Spacing Sequence	SQ	1	
(0040,08DA)	Coordinate System Axis Code Sequence	SQ	1	
(0040,08EA)	Measurement Units Code Sequence	SQ	1	
(0040,1001)	Requested Procedure ID	SH	1	
(0040,1002)	Reason for the Requested Procedure	LO	1	
(0040,1003)	Requested Procedure Priority	SH	1	
(0040,1004)	Patient Transport Arrangements	LO	1	
(0040,1005)	Requested Procedure Location	LO	1	
(0040,1006)	*Placer Order Number / Procedure*	*SH*	*1*	*RET*
(0040,1007)	*Filler Order Number / Procedure*	*SH*	*1*	*RET*
(0040,1008)	Confidentiality Code	LO	1	
(0040,1009)	Reporting Priority	SH	1	
(0040,1010)	Names of Intended Recipients of Results	PN	1-n	
(0040,1400)	Requested Procedure Comments	LT	1	
(0040,2001)	Reason for the Imaging Service Request	LO	1	
(0040,2004)	Issue Date of Imaging Service Request	DA	1	
(0040,2005)	Issue Time of Imaging Service Request	TM	1	
(0040,2006)	*Placer Order Number / Imaging Service Request*	*SH*	*1*	*RET*
(0040,2007)	*Filler Order Number / Imaging Service Request*	*SH*	*1*	*RET*
(0040,2008)	Order Entered By	PN	1	
(0040,2009)	Order Enterer's Location	SH	1	
(0040,2010)	Order Callback Phone Number	SH	1	
(0040,2016)	Placer Order Number / Imaging Service Request	LO	1	
(0040,2017)	Filler Order Number / Imaging Service Request	LO	1	
(0040,2400)	Imaging Service Request Comments	LT	1	
(0040,3001)	Confidentiality Constraint on Patient Data Description	LO	1	
(0040,8302)	Entrance Dose in mGy	DS	1	
(0040,A010)	Relationship Type	CS	1	

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Tag	Name	VR	VM
(0040,A027)	Verifying Organization	LO	1
(0040,A030)	Verification DateTime	DT	1
(0040,A032)	Observation DateTime	DT	1
(0040,A040)	Value Type	CS	1
(0040,A043)	Concept-name Code Sequence	SQ	1
(0040,A050)	Continuity Of Content	CS	1
(0040,A073)	Verifying Observer Sequence	SQ	1
(0040,A075)	Verifying Observer Name	PN	1
(0040,A088)	Verifying Observer Identification Code Sequence	SQ	1
(0040,A0B0)	Referenced Waveform Channels	US	2-2n
(0040,A120)	DateTime	DT	1
(0040,A121)	Date	DA	1
(0040,A122)	Time	TM	1
(0040,A123)	Person Name	PN	1
(0040,A124)	UID	UI	1
(0040,A130)	Temporal Range Type	CS	1
(0040,A132)	Referenced Sample Positions	UL	1-n
(0040,A136)	Referenced Frame Numbers	US	1-n
(0040,A138)	Referenced Time Offsets	DS	1-n
(0040,A13A)	Referenced Datetime	DT	1-n
(0040,A160)	Text Value	UT	1
(0040,A168)	Concept Code Sequence	SQ	1
(0040,A180)	Annotation Group Number	US	1
(0040,A195)	Modifier Code Sequence	SQ	1
(0040,A300)	Measured Value Sequence	SQ	1
(0040,A30A)	Numeric Value	DS	1-n
(0040,A360)	Predecessor Documents Sequence	SQ	1
(0040,A370)	Referenced Request Sequence	SQ	1
(0040,A372)	Performed Procedure Code Sequence	SQ	1
(0040,A375)	Current Requested Procedure Evidence Sequence	SQ	1
(0040,A385)	Pertinent Other Evidence Sequence	SQ	1

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Tag	Name	VR	VM
(0040,A491)	Completion Flag	CS	1
(0040,A492)	Completion Flag Description	LO	1
(0040,A493)	Verification Flag	CS	1
(0040,A504)	Content Template Sequence	SQ	1
(0040,A525)	Identical Documents Sequence	SQ	1
(0040,A730)	Content Sequence	SQ	1
(0040,B020)	Annotation Sequence	SQ	1
(0040,DB00)	Template Identifier	CS	1
(0040,DB06)	Template Version	DT	1
(0040,DB07)	Template Local Version	DT	1
(0040,DB0B)	Template Extension Flag	CS	1
(0040,DB0C)	Template Extension Organization UID	UI	1
(0040,DB0D)	Template Extension Creator UID	UI	1
(0040,DB73)	Referenced Content Item Identifier	UL	1-n

Tag	Name	VR	VM
(0050,0004)	Calibration Image	CS	1
(0050,0010)	Device Sequence	SQ	1
(0050,0014)	Device Length	DS	1
(0050,0016)	Device Diameter	DS	1
(0050,0017)	Device Diameter Units	CS	1
(0050,0018)	Device Volume	DS	1
(0050,0019)	Inter-marker Distance	DS	1
(0050,0020)	Device Description	LO	1

Tag	Name	VR	VM
(0054,0010)	Energy Window Vector	US	1-n
(0054,0011)	Number of Energy Windows	US	1

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Tag	Name	VR	VM
(0054,0012)	Energy Window Information Sequence	SQ	1
(0054,0013)	Energy Window Range Sequence	SQ	1
(0054,0014)	Energy Window Lower Limit	DS	1
(0054,0015)	Energy Window Upper Limit	DS	1
(0054,0016)	Radiopharmaceutical Information Sequence	SQ	1
(0054,0017)	Residual Syringe Counts	IS	1
(0054,0018)	Energy Window Name	SH	1
(0054,0020)	Detector Vector	US	1-n
(0054,0021)	Number of Detectors	US	1
(0054,0022)	Detector Information Sequence	SQ	1
(0054,0030)	Phase Vector	US	1-n
(0054,0031)	Number of Phases	US	1
(0054,0032)	Phase Information Sequence	SQ	1
(0054,0033)	Number of Frames in Phase	US	1
(0054,0036)	Phase Delay	IS	1
(0054,0038)	Pause Between Frames	IS	1
(0054,0050)	Rotation Vector	US	1-n
(0054,0051)	Number of Rotations	US	1
(0054,0052)	Rotation Information Sequence	SQ	1
(0054,0053)	Number of Frames in Rotation	US	1
(0054,0060)	R-R Interval Vector	US	1-n
(0054,0061)	Number of R-R Intervals	US	1
(0054,0062)	Gated Information Sequence	SQ	1
(0054,0063)	Data Information Sequence	SQ	1
(0054,0070)	Time Slot Vector	US	1-n
(0054,0071)	Number of Time Slots	US	1
(0054,0072)	Time Slot Information Sequence	SQ	1
(0054,0073)	Time Slot Time	DS	1
(0054,0080)	Slice Vector	US	1-n
(0054,0081)	Number of Slices	US	1
(0054,0090)	Angular View Vector	US	1-n

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Tag	Name	VR	VM
(0054,0100)	Time Slice Vector	US	1-n
(0054,0101)	Number of Time Slices	US	1
(0054,0200)	Start Angle	DS	1
(0054,0202)	Type of Detector Motion	CS	1
(0054,0210)	Trigger Vector	IS	1-n
(0054,0211)	Number of Triggers in Phase	US	1
(0054,0220)	View Code Sequence	SQ	1
(0054,0222)	View Modifier Code Sequence	SQ	1
(0054,0300)	Radionuclide Code Sequence	SQ	1
(0054,0302)	Administration Route Code Sequence	SQ	1
(0054,0304)	Radiopharmaceutical Code Sequence	SQ	1
(0054,0306)	Calibration Data Sequence	SQ	1
(0054,0308)	Energy Window Number	US	1
(0054,0400)	Image ID	SH	1
(0054,0410)	Patient Orientation Code Sequence	SQ	1
(0054,0412)	Patient Orientation Modifier Code Sequence	SQ	1
(0054,0414)	Patient Gantry Relationship Code Sequence	SQ	1
(0054,1000)	Series Type	CS	2
(0054,1001)	Units	CS	1
(0054,1002)	Counts Source	CS	1
(0054,1004)	Reprojection Method	CS	1
(0054,1100)	Randoms Correction Method	CS	1
(0054,1101)	Attenuation Correction Method	LO	1
(0054,1102)	Decay Correction	CS	1
(0054,1103)	Reconstruction Method	LO	1
(0054,1104)	Detector Lines of Response Used	LO	1
(0054,1105)	Scatter Correction Method	LO	1
(0054,1200)	Axial Acceptance	DS	1
(0054,1201)	Axial Mash	IS	2
(0054,1202)	Transverse Mash	IS	1

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Tag	Name	VR	VM
(0054,1203)	Detector Element Size	DS	2
(0054,1210)	Coincidence Window Width	DS	1
(0054,1220)	Secondary Counts Type	CS	1-n
(0054,1300)	Frame Reference Time	DS	1
(0054,1310)	Primary (Prompts) Counts Accumulated	IS	1
(0054,1311)	Secondary Counts Accumulated	IS	1-n
(0054,1320)	Slice Sensitivity Factor	DS	1
(0054,1321)	Decay Factor	DS	1
(0054,1322)	Dose Calibration Factor	DS	1
(0054,1323)	Scatter Fraction Factor	DS	1
(0054,1324)	Dead Time Factor	DS	1
(0054,1330)	Image Index	US	1
(0054,1400)	Counts Included	CS	1-n
(0054,1401)	Dead Time Correction Flag	CS	1

Tag	Name	VR	VM
(0060,3000)	Histogram Sequence	SQ	1
(0060,3002)	Histogram Number of Bins	US	1
(0060,3004)	Histogram First Bin Value	US or SS	1
(0060,3006)	Histogram Last Bin Value	US or SS	1
(0060,3008)	Histogram Bin Width	US	1
(0060,3010)	Histogram Explanation	LO	1
(0060,3020)	Histogram Data	UL	1-n

Tag	Name	VR	VM
(0070,0001)	Graphic Annotation Sequence	SQ	1
(0070,0002)	Graphic Layer	CS	1
(0070,0003)	Bounding Box Annotation Units	CS	1
(0070,0004)	Anchor Point Annotation Units	CS	1
(0070,0005)	Graphic Annotation Units	CS	1

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Tag	Name	VR	VM
(0070,0006)	Unformatted Text Value	ST	1
(0070,0008)	Text Object Sequence	SQ	1
(0070,0009)	Graphic Object Sequence	SQ	1
(0070,0010)	Bounding Box Top Left Hand Corner	FL	2
(0070,0011)	Bounding Box Bottom Right Hand Corner	FL	2
(0070,0012)	Bounding Box Text Horizontal Justification	CS	1
(0070,0014)	Anchor Point	FL	2
(0070,0015)	Anchor Point Visibility	CS	1
(0070,0020)	Graphic Dimensions	US	1
(0070,0021)	Number of Graphic Points	US	1
(0070,0022)	Graphic Data	FL	2-n
(0070,0023)	Graphic Type	CS	1
(0070,0024)	Graphic Filled	CS	1
(0070,0041)	Image Horizontal Flip	CS	1
(0070,0042)	Image Rotation	US	1
(0070,0052)	Displayed Area Top Left Hand Corner	SL	2
(0070,0053)	Displayed Area Bottom Right Hand Corner	SL	2
(0070,005A)	Displayed Area Selection Sequence	SQ	1
(0070,0060)	Graphic Layer Sequence	SQ	1
(0070,0062)	Graphic Layer Order	IS	1
(0070,0066)	Graphic Layer Recommended Display Grayscale Value	US	1
(0070,0067)	Graphic Layer Recommended Display RGB Value	US	3
(0070,0068)	Graphic Layer Description	LO	1
(0070,0080)	Presentation Label	CS	1
(0070,0081)	Presentation Description	LO	1
(0070,0082)	Presentation Creation Date	DA	1
(0070,0083)	Presentation Creation Time	TM	1
(0070,0084)	Presentation Creator's Name	PN	1
(0070,0100)	Presentation Size Mode	CS	1
(0070,0101)	Presentation Pixel Spacing	DS	2

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Tag	Name	VR	VM
(0070,0102)	Presentation Pixel Aspect Ratio	IS	2
(0070,0103)	Presentation Pixel Magnification Ratio	FL	1

Tag	Name	VR	VM
(0088,0130)	Storage Media File-set ID	SH	1
(0088,0140)	Storage Media File-set UID	UI	1
(0088,0200)	Icon Image Sequence	SQ	1
(0088,0904)	Topic Title	LO	1
(0088,0906)	Topic Subject	ST	1
(0088,0910)	Topic Author	LO	1
(0088,0912)	Topic Key Words	LO	1-32

Tag	Name	VR	VM
(0100,0410)	SOP Instance Status	CS	1
(0100,0420)	SOP Authorization Date and Time	DT	1
(0100,0424)	SOP Authorization Comment	LT	1
(0100,0426)	Authorization Equipment Certification Number	LO	1

Tag	Name	VR	VM
(2000,0010)	Number of Copies	IS	1
(2000,001E)	Printer Configuration Sequence	SQ	1
(2000,0020)	*Print Priority*	CS	1
(2000,0030)	Medium Type	CS	1
(2000,0040)	Film Destination	CS	1
(2000,0050)	Film Session Label	LO	1
(2000,0060)	Memory Allocation	IS	1
(2000,0061)	Maximum Memory Allocation	IS	1
(2000,0062)	Color Image Printing Flag	CS	1

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Tag	Name	VR	VM
(2000,0063)	Collation Flag	CS	1
(2000,0065)	Annotation Flag	CS	1
(2000,0067)	Image Overlay Flag	CS	1
(2000,0069)	Presentation LUT Flag	CS	1
(2000,006A)	Image Box Presentation LUT Flag	CS	1
(2000,00A0)	Memory Bit Depth	US	1
(2000,00A1)	Printing Bit Depth	US	1
(2000,00A2)	Media Installed Sequence	SQ	1
(2000,00A4)	Other Media Available Sequence	SQ	1
(2000,00A8)	Supported Image Display Formats Sequence	SQ	1
(2000,0500)	Referenced Film Box Sequence	SQ	1
(2000,0510)	Referenced Stored Print Sequence	SQ	1

Tag	Name	VR	VM
(2010,0010)	Image Display Format	ST	1
(2010,0030)	Annotation Display Format ID	CS	1
(2010,0040)	Film Orientation	CS	1
(2010,0050)	Film Size ID	CS	1
(2010,0052)	Printer Resolution ID	CS	1
(2010,0054)	Default Printer Resolution ID	CS	1
(2010,0060)	Magnification Type	CS	1
(2010,0080)	Smoothing Type	CS	1
(2010,00A6)	Default Magnification Type	CS	1
(2010,00A7)	Other Magnification Types Available	CS	1-n
(2010,00A8)	Default Smoothing Type	CS	1
(2010,00A9)	Other Smoothing Types Available	CS	1-n
(2010,0100)	Border Density	CS	1
(2010,0110)	Empty Image Density	CS	1
(2010,0120)	Min Density	US	1

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Tag	Name	VR	VM	
(2010,0130)	Max Density	US	1	
(2010,0140)	Trim	CS	1	
(2010,0150)	Configuration Information	ST	1	
(2010,0152)	Configuration Information Description	LT	1	
(2010,0154)	*Maximum Collated Films*	IS	1	
(2010,015E)	Illumination	US	1	
(2010,0160)	Reflected Ambient Light	US	1	
(2010,0376)	Printer Pixel Spacing	DS	2	
(2010,0500)	Referenced Film Session Sequence	SQ	1	
(2010,0510)	Referenced Image Box Sequence	SQ	1	
(2010,0520)	Referenced Basic Annotation Box Sequence	SQ	1	

Tag	Name	VR	VM	
(2020,0010)	Image Position	US	1	
(2020,0020)	Polarity	CS	1	
(2020,0030)	Requested Image Size	DS	1	
(2020,0040)	Requested Decimate/Crop Behavior	CS	1	
(2020,0050)	Requested Resolution ID	CS	1	
(2020,00A0)	Requested Image Size Flag	CS	1	
(2020,00A2)	Decimate/Crop Result	CS	1	
(2020,0110)	Basic Grayscale Image Sequence	SQ	1	
(2020,0111)	Basic Color Image Sequence	SQ	1	
(2020,0130)	*Referenced Image Overlay Box Sequence*	SQ	*1*	*RET*
(2020,0140)	*Referenced VOI LUT Box Sequence*	SQ	*1*	*RET*

Tag	Name	VR	VM
(2030,0010)	Annotation Position	US	1
(2030,0020)	Text String	LO	1

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Tag	Name	VR	VM	

Tag	Name	VR	VM	
(2040,0010)	Referenced Overlay Plane Sequence	SQ	1	
(2040,0011)	Referenced Overlay Plane Groups	US	1-99	
(2040,0020)	Overlay Pixel Data Sequence	SQ	1	
(2040,0060)	Overlay Magnification Type	CS	1	
(2040,0070)	Overlay Smoothing Type	CS	1	
(2040,0072)	Overlay or Image Magnification	CS	1	
(2040,0074)	Magnify to Number of Columns	US	1	
(2040,0080)	Overlay Foreground Density	CS	1	
(2040,0082)	Overlay Background Density	CS	1	
(2040,0090)	*Overlay Mode*	*CS*	*1*	*RET*
(2040,0100)	*Threshold Density*	*CS*	*1*	*RET*
(2040,0500)	*Referenced Image Box Sequence*	*SQ*	*1*	*RET*

Tag	Name	VR	VM
(2050,0010)	Presentation LUT Sequence	SQ	1
(2050,0020)	Presentation LUT Shape	CS	1
(2050,0500)	Referenced Presentation LUT Sequence	SQ	1

Tag	Name	VR	VM
(2100,0010)	Print Job ID	SH	1
(2100,0020)	Execution Status	CS	1
(2100,0030)	Execution Status Info	CS	1
(2100,0040)	Creation Date	DA	1
(2100,0050)	Creation Time	TM	1
(2100,0070)	Originator	AE	1

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Tag	Name	VR	VM
(2100,0140)	Destination AE	AE	1
(2100,0160)	Owner ID	SH	1
(2100,0170)	Number of Films	IS	1
(2100,0500)	Referenced Print Job Sequence	SQ	1

Tag	Name	VR	VM
(2110,0010)	Printer Status	CS	1
(2110,0020)	Printer Status Info	CS	1
(2110,0030)	Printer Name	LO	1
(2110,0099)	Print Queue ID	SH	1

Tag	Name	VR	VM
(2120,0010)	Queue Status	CS	1
(2120,0050)	Print Job Description Sequence	SQ	1
(2120,0070)	Referenced Print Job Sequence	SQ	1

Tag	Name	VR	VM
(2130,0010)	Print Management Capabilities Sequence	SQ	1
(2130,0015)	Printer Characteristics Sequence	SQ	1
(2130,0030)	Film Box Content Sequence	SQ	1
(2130,0040)	Image Box Content Sequence	SQ	1
(2130,0050)	Annotation Content Sequence	SQ	1
(2130,0060)	Image Overlay Box Content Sequence	SQ	1
(2130,0080)	Presentation LUT Content Sequence	SQ	1
(2130,00A0)	Proposed Study Sequence	SQ	1
(2130,00C0)	Original Image Sequence	SQ	1

Tag	Name	VR	VM
(3002,0002)	RT Image Label	SH	1

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Tag	Name	VR	VM
(3002,0003)	RT Image Name	LO	1
(3002,0004)	RT Image Description	ST	1
(3002,000A)	Reported Values Origin	CS	1
(3002,000C)	RT Image Plane	CS	1
(3002,000D)	X-Ray Image Receptor Translation	DS	3
(3002,000E)	X-Ray Image Receptor Angle	DS	1
(3002,0010)	RT Image Orientation	DS	6
(3002,0011)	Image Plane Pixel Spacing	DS	2
(3002,0012)	RT Image Position	DS	2
(3002,0020)	Radiation Machine Name	SH	1
(3002,0022)	Radiation Machine SAD	DS	1
(3002,0024)	Radiation Machine SSD	DS	1
(3002,0026)	RT Image SID	DS	1
(3002,0028)	Source to Reference Object Distance	DS	1
(3002,0029)	Fraction Number	IS	1
(3002,0030)	Exposure Sequence	SQ	1
(3002,0032)	Meterset Exposure	DS	1

Tag	Name	VR	VM
(3004,0001)	DVH Type	CS	1
(3004,0002)	Dose Units	CS	1
(3004,0004)	Dose Type	CS	1
(3004,0006)	Dose Comment	LO	1
(3004,0008)	Normalization Point	DS	3
(3004,000A)	Dose Summation Type	CS	1
(3004,000C)	Grid Frame Offset Vector	DS	2-n
(3004,000E)	Dose Grid Scaling	DS	1
(3004,0010)	RT Dose ROI Sequence	SQ	1
(3004,0012)	Dose Value	DS	1
(3004,0040)	DVH Normalization Point	DS	3

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Tag	Name	VR	VM
(3004,0042)	DVH Normalization Dose Value	DS	1
(3004,0050)	DVH Sequence	SQ	1
(3004,0052)	DVH Dose Scaling	DS	1
(3004,0054)	DVH Volume Units	CS	1
(3004,0056)	DVH Number of Bins	IS	1
(3004,0058)	DVH Data	DS	2-2n
(3004,0060)	DVH Referenced ROI Sequence	SQ	1
(3004,0062)	DVH ROI Contribution Type	CS	1
(3004,0070)	DVH Minimum Dose	DS	1
(3004,0072)	DVH Maximum Dose	DS	1
(3004,0074)	DVH Mean Dose	DS	1

Tag	Name	VR	VM
(3006,0002)	Structure Set Label	SH	1
(3006,0004)	Structure Set Name	LO	1
(3006,0006)	Structure Set Description	ST	1
(3006,0008)	Structure Set Date	DA	1
(3006,0009)	Structure Set Time	TM	1
(3006,0010)	Referenced Frame of Reference Sequence	SQ	1
(3006,0012)	RT Referenced Study Sequence	SQ	1
(3006,0014)	RT Referenced Series Sequence	SQ	1
(3006,0016)	Contour Image Sequence	SQ	1
(3006,0020)	Structure Set ROI Sequence	SQ	1
(3006,0022)	ROI Number	IS	1
(3006,0024)	Referenced Frame of Reference UID	UI	1
(3006,0026)	ROI Name	LO	1
(3006,0028)	ROI Description	ST	1
(3006,002A)	ROI Display Color	IS	3
(3006,002C)	ROI Volume	DS	1
(3006,0030)	RT Related ROI Sequence	SQ	1

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Tag	Name	VR	VM
(3006,0033)	RT ROI Relationship	CS	1
(3006,0036)	ROI Generation Algorithm	CS	1
(3006,0038)	ROI Generation Description	LO	1
(3006,0039)	ROI Contour Sequence	SQ	1
(3006,0040)	Contour Sequence	SQ	1
(3006,0042)	Contour Geometric Type	CS	1
(3006,0044)	Contour Slab Thickness	DS	1
(3006,0045)	Contour Offset Vector	DS	3
(3006,0046)	Number of Contour Points	IS	1
(3006,0048)	Contour Number	IS	1
(3006,0049)	Attached Contours	IS	1-n
(3006,0050)	Contour Data	DS	3-3n
(3006,0080)	RT ROI Observations Sequence	SQ	1
(3006,0082)	Observation Number	IS	1
(3006,0084)	Referenced ROI Number	IS	1
(3006,0085)	ROI Observation Label	SH	1
(3006,0086)	RT ROI Identification Code Sequence	SQ	1
(3006,0088)	ROI Observation Description	ST	1
(3006,00A0)	Related RT ROI Observations Sequence	SQ	1
(3006,00A4)	RT ROI Interpreted Type	CS	1
(3006,00A6)	ROI Interpreter	PN	1
(3006,00B0)	ROI Physical Properties Sequence	SQ	1
(3006,00B2)	ROI Physical Property	CS	1
(3006,00B4)	ROI Physical Property Value	DS	1
(3006,00C0)	Frame of Reference Relationship Sequence	SQ	1
(3006,00C2)	Related Frame of Reference UID	UI	1
(3006,00C4)	Frame of Reference Transformation Type	CS	1
(3006,00C6)	Frame of Reference Transformation Matrix	DS	16
(3006,00C8)	Frame of Reference Transformation Comment	LO	1

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Tag	Name	VR	VM

Tag	Name	VR	VM
(3008,0010)	Measured Dose Reference Sequence	SQ	1
(3008,0012)	Measured Dose Description	ST	1
(3008,0014)	Measured Dose Type	CS	1
(3008,0016)	Measured Dose Value	DS	1
(3008,0020)	Treatment Session Beam Sequence	SQ	1
(3008,0022)	Current Fraction Number	IS	1
(3008,0024)	Treatment Control Point Date	DA	1
(3008,0025)	Treatment Control Point Time	TM	1
(3008,002A)	Treatment Termination Status	CS	1
(3008,002B)	Treatment Termination Code	SH	1
(3008,002C)	Treatment Verification Status	CS	1
(3008,0030)	Referenced Treatment Record Sequence	SQ	1
(3008,0032)	Specified Primary Meterset	DS	1
(3008,0033)	Specified Secondary Meterset	DS	1
(3008,0036)	Delivered Primary Meterset	DS	1
(3008,0037)	Delivered Secondary Meterset	DS	1
(3008,003A)	Specified Treatment Time	DS	1
(3008,003B)	Delivered Treatment Time	DS	1
(3008,0040)	Control Point Delivery Sequence	SQ	1
(3008,0042)	Specified Meterset	DS	1
(3008,0044)	Delivered Meterset	DS	1
(3008,0048)	Dose Rate Delivered	DS	1
(3008,0050)	Treatment Summary Calculated Dose Reference Sequence	SQ	1
(3008,0052)	Cumulative Dose to Dose Reference	DS	1
(3008,0054)	First Treatment Date	DA	1
(3008,0056)	Most Recent Treatment Date	DA	1
(3008,005A)	Number of Fractions Delivered	IS	1
(3008,0060)	Override Sequence	SQ	1
(3008,0062)	Override Parameter Pointer	AT	1

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Tag	Name	VR	VM
(3008,0064)	Measured Dose Reference Number	IS	1
(3008,0066)	Override Reason	ST	1
(3008,0070)	Calculated Dose Reference Sequence	SQ	1
(3008,0072)	Calculated Dose Reference Number	IS	1
(3008,0074)	Calculated Dose Reference Description	ST	1
(3008,0076)	Calculated Dose Reference Dose Value	DS	1
(3008,0078)	Start Meterset	DS	1
(3008,007A)	End Meterset	DS	1
(3008,0080)	Referenced Measured Dose Reference Sequence	SQ	1
(3008,0082)	Referenced Measured Dose Reference Number	IS	1
(3008,0090)	Referenced Calculated Dose Reference Sequence	SQ	1
(3008,0092)	Referenced Calculated Dose Reference Number	IS	1
(3008,00A0)	Beam Limiting Device Leaf Pairs Sequence	SQ	1
(3008,00B0)	Recorded Wedge Sequence	SQ	1
(3008,00C0)	Recorded Compensator Sequence	SQ	1
(3008,00D0)	Recorded Block Sequence	SQ	1
(3008,00E0)	Treatment Summary Measured Dose Reference Sequence	SQ	1
(3008,0100)	Recorded Source Sequence	SQ	1
(3008,0105)	Source Serial Number	LO	1
(3008,0110)	Treatment Session Application Setup Sequence	SQ	1
(3008,0116)	Application Setup Check	CS	1
(3008,0120)	Recorded Brachy Accessory Device Sequence	SQ	1
(3008,0122)	Referenced Brachy Accessory Device Number	IS	1
(3008,0130)	Recorded Channel Sequence	SQ	1
(3008,0132)	Specified Channel Total Time	DS	1
(3008,0134)	Delivered Channel Total Time	DS	1
(3008,0136)	Specified Number of Pulses	IS	1
(3008,0138)	Delivered Number of Pulses	IS	1
(3008,013A)	Specified Pulse Repetition Interval	DS	1
(3008,013C)	Delivered Pulse Repetition Interval	DS	1

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Tag	Name	VR	VM
(3008,0140)	Recorded Source Applicator Sequence	SQ	1
(3008,0142)	Referenced Source Applicator Number	IS	1
(3008,0150)	Recorded Channel Shield Sequence	SQ	1
(3008,0152)	Referenced Channel Shield Number	IS	1
(3008,0160)	Brachy Control Point Delivered Sequence	SQ	1
(3008,0162)	Safe Position Exit Date	DA	1
(3008,0164)	Safe Position Exit Time	TM	1
(3008,0166)	Safe Position Return Date	DA	1
(3008,0168)	Safe Position Return Time	TM	1
(3008,0200)	Current Treatment Status	CS	1
(3008,0202)	Treatment Status Comment	ST	1
(3008,0220)	Fraction Group Summary Sequence	SQ	1
(3008,0223)	Referenced Fraction Number	IS	1
(3008,0224)	Fraction Group Type	CS	1
(3008,0230)	Beam Stopper Position	CS	1
(3008,0240)	Fraction Status Summary Sequence	SQ	1
(3008,0250)	Treatment Date	DA	1
(3008,0251)	Treatment Time	TM	1

Tag	Name	VR	VM
(300A,0002)	RT Plan Label	SH	1
(300A,0003)	RT Plan Name	LO	1
(300A,0004)	RT Plan Description	ST	1
(300A,0006)	RT Plan Date	DA	1
(300A,0007)	RT Plan Time	TM	1
(300A,0009)	Treatment Protocols	LO	1-n
(300A,00CA)	Treatment Intent	CS	1
(300A,00CB)	Treatment Sites	LO	1-n
(300A,00CC)	RT Plan Geometry	CS	1
(300A,00CE)	Prescription Description	ST	1

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Tag	Name	VR	VM
(300A,0010)	Dose Reference Sequence	SQ	1
(300A,0012)	Dose Reference Number	IS	1
(300A,0014)	Dose Reference Structure Type	CS	1
(300A,0015)	Nominal Beam Energy Unit	CS	1
(300A,0016)	Dose Reference Description	LO	1
(300A,0018)	Dose Reference Point Coordinates	DS	3
(300A,001A)	Nominal Prior Dose	DS	1
(300A,0020)	Dose Reference Type	CS	1
(300A,0021)	Constraint Weight	DS	1
(300A,0022)	Delivery Warning Dose	DS	1
(300A,0023)	Delivery Maximum Dose	DS	1
(300A,0025)	Target Minimum Dose	DS	1
(300A,0026)	Target Prescription Dose	DS	1
(300A,0027)	Target Maximum Dose	DS	1
(300A,0028)	Target Underdose Volume Fraction	DS	1
(300A,002A)	Organ at Risk Full-volume Dose	DS	1
(300A,002B)	Organ at Risk Limit Dose	DS	1
(300A,002C)	Organ at Risk Maximum Dose	DS	1
(300A,002D)	Organ at Risk Overdose Volume Fraction	DS	1
(300A,0040)	Tolerance Table Sequence	SQ	1
(300A,0042)	Tolerance Table Number	IS	1
(300A,0043)	Tolerance Table Label	SH	1
(300A,0044)	Gantry Angle Tolerance	DS	1
(300A,0046)	Beam Limiting Device Angle Tolerance	DS	1
(300A,0048)	Beam Limiting Device Tolerance Sequence	SQ	1
(300A,004A)	Beam Limiting Device Position Tolerance	DS	1
(300A,004C)	Patient Support Angle Tolerance	DS	1
(300A,004E)	Table Top Eccentric Angle Tolerance	DS	1
(300A,0051)	Table Top Vertical Position Tolerance	DS	1
(300A,0052)	Table Top Longitudinal Position Tolerance	DS	1

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Tag	Name	VR	VM
(300A,0053)	Table Top Lateral Position Tolerance	DS	1
(300A,0055)	RT Plan Relationship	CS	1
(300A,0070)	Fraction Group Sequence	SQ	1
(300A,0071)	Fraction Group Number	IS	1
(300A,0078)	Number of Fractions Planned	IS	1
(300A,0079)	Number of Fractions Per Day	IS	1
(300A,007A)	Repeat Fraction Cycle Length	IS	1
(300A,007B)	Fraction Pattern	LT	1
(300A,0080)	Number of Beams	IS	1
(300A,0082)	Beam Dose Specification Point	DS	3
(300A,0084)	Beam Dose	DS	1
(300A,0086)	Beam Meterset	DS	1
(300A,00A0)	Number of Brachy Application Setups	IS	1
(300A,00A2)	Brachy Application Setup Dose Specification Point	DS	3
(300A,00A4)	Brachy Application Setup Dose	DS	1
(300A,00E0)	Beam Sequence	SQ	1
(300A,00B2)	Treatment Machine Name	SH	1
(300A,00B3)	Primary Dosimeter Unit	CS	1
(300A,00B4)	Source-Axis Distance	DS	1
(300A,00B6)	Beam Limiting Device Sequence	SQ	1
(300A,00E8)	RT Beam Limiting Device Type	CS	1
(300A,00BA)	Source to Beam Limiting Device Distance	DS	1
(300A,00BC)	Number of Leaf/Jaw Pairs	IS	1
(300A,00BE)	Leaf Position Boundaries	DS	3-n
(300A,00C0)	Beam Number	IS	1
(300A,00C2)	Beam Name	LO	1
(300A,00C3)	Beam Description	ST	1
(300A,00C4)	Beam Type	CS	1
(300A,00C6)	Radiation Type	CS	1
(300A,00C8)	Reference Image Number	IS	1
(300A,00CA)	Planned Verification Image Sequence	SQ	1

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Tag	Name	VR	VM
(300A,00CC)	Imaging Device-Specific Acquisition Parameters	LO	1-n
(300A,00CE)	Treatment Delivery Type	CS	1
(300A,00D0)	Number of Wedges	IS	1
(300A,00D1)	Wedge Sequence	SQ	1
(300A,00D2)	Wedge Number	IS	1
(300A,00D3)	Wedge Type	CS	1
(300A,00D4)	Wedge ID	SH	1
(300A,00D5)	Wedge Angle	IS	1
(300A,00D6)	Wedge Factor	DS	1
(300A,00D8)	Wedge Orientation	DS	1
(300A,00DA)	Source to Wedge Tray Distance	DS	1
(300A,00E0)	Number of Compensators	IS	1
(300A,00E1)	Material ID	SH	1
(300A,00E2)	Total Compensator Tray Factor	DS	1
(300A,00E3)	Compensator Sequence	SQ	1
(300A,00E4)	Compensator Number	IS	1
(300A,00E5)	Compensator ID	SH	1
(300A,00E6)	Source to Compensator Tray Distance	DS	1
(300A,00E7)	Compensator Rows	IS	1
(300A,00E8)	Compensator Columns	IS	1
(300A,00E9)	Compensator Pixel Spacing	DS	2
(300A,00EA)	Compensator Position	DS	2
(300A,00EB)	Compensator Transmission Data	DS	1-n
(300A,00EC)	Compensator Thickness Data	DS	1-n
(300A,00ED)	Number of Boli	IS	1
(300A,00EE)	Compensator Type	CS	1
(300A,00F0)	Number of Blocks	IS	1
(300A,00F2)	Total Block Tray Factor	DS	1
(300A,00F4)	Block Sequence	SQ	1
(300A,00F5)	Block Tray ID	SH	1

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Tag	Name	VR	VM
(300A,00F6)	Source to Block Tray Distance	DS	1
(300A,00F8)	Block Type	CS	1
(300A,00FA)	Block Divergence	CS	1
(300A,00FC)	Block Number	IS	1
(300A,00FE)	Block Name	LO	1
(300A,0100)	Block Thickness	DS	1
(300A,0102)	Block Transmission	DS	1
(300A,0104)	Block Number of Points	IS	1
(300A,0106)	Block Data	DS	2-2n
(300A,0107)	Applicator Sequence	SQ	1
(300A,0108)	Applicator ID	SH	1
(300A,0109)	Applicator Type	CS	1
(300A,010A)	Applicator Description	LO	1
(300A,010C)	Cumulative Dose Reference Coefficient	DS	1
(300A,010E)	Final Cumulative Meterset Weight	DS	1
(300A,0110)	Number of Control Points	IS	1
(300A,0111)	Control Point Sequence	SQ	1
(300A,0112)	Control Point Index	IS	1
(300A,0114)	Nominal Beam Energy	DS	1
(300A,0115)	Dose Rate Set	DS	1
(300A,0116)	Wedge Position Sequence	SQ	1
(300A,0118)	Wedge Position	CS	1
(300A,011A)	Beam Limiting Device Position Sequence	SQ	1
(300A,011C)	Leaf/Jaw Positions	DS	2-2n
(300A,011E)	Gantry Angle	DS	1
(300A,011F)	Gantry Rotation Direction	CS	1
(300A,0120)	Beam Limiting Device Angle	DS	1
(300A,0121)	Beam Limiting Device Rotation Direction	CS	1
(300A,0122)	Patient Support Angle	DS	1
(300A,0123)	Patient Support Rotation Direction	CS	1
(300A,0124)	Table Top Eccentric Axis Distance	DS	1

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Tag	Name	VR	VM
(300A,0125)	Table Top Eccentric Angle	DS	1
(300A,0126)	Table Top Eccentric Rotation Direction	CS	1
(300A,0128)	Table Top Vertical Position	DS	1
(300A,0129)	Table Top Longitudinal Position	DS	1
(300A,012A)	Table Top Lateral Position	DS	1
(300A,012C)	Isocenter Position	DS	3
(300A,012E)	Surface Entry Point	DS	3
(300A,0130)	Source to Surface Distance	DS	1
(300A,0134)	Cumulative Meterset Weight	DS	1
(300A,0180)	Patient Setup Sequence	SQ	1
(300A,0182)	Patient Setup Number	IS	1
(300A,0184)	Patient Additional Position	LO	1
(300A,0190)	Fixation Device Sequence	SQ	1
(300A,0192)	Fixation Device Type	CS	1
(300A,0194)	Fixation Device Label	SH	1
(300A,0196)	Fixation Device Description	ST	1
(300A,0198)	Fixation Device Position	SH	1
(300A,01A0)	Shielding Device Sequence	SQ	1
(300A,01A2)	Shielding Device Type	CS	1
(300A,01A4)	Shielding Device Label	SH	1
(300A,01A6)	Shielding Device Description	ST	1
(300A,01A8)	Shielding Device Position	SH	1
(300A,01B0)	Setup Technique	CS	1
(300A,01B2)	Setup Technique Description	ST	1
(300A,01B4)	Setup Device Sequence	SQ	1
(300A,01B6)	Setup Device Type	CS	1
(300A,01B8)	Setup Device Label	SH	1
(300A,01BA)	Setup Device Description	ST	1
(300A,01BC)	Setup Device Parameter	DS	1
(300A,01D0)	Setup Reference Description	ST	1

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Tag	Name	VR	VM
(300A,01D2)	Table Top Vertical Setup Displacement	DS	1
(300A,01D4)	Table Top Longitudinal Setup Displacement	DS	1
(300A,01D6)	Table Top Lateral Setup Displacement	DS	1
(300A,0200)	Brachy Treatment Technique	CS	1
(300A,0202)	Brachy Treatment Type	CS	1
(300A,0206)	Treatment Machine Sequence	SQ	1
(300A,0210)	Source Sequence	SQ	1
(300A,0212)	Source Number	IS	1
(300A,0214)	Source Type	CS	1
(300A,0216)	Source Manufacturer	LO	1
(300A,0218)	Active Source Diameter	DS	1
(300A,021A)	Active Source Length	DS	1
(300A,0222)	Source Encapsulation Nominal Thickness	DS	1
(300A,0224)	Source Encapsulation Nominal Transmission	DS	1
(300A,0226)	Source Isotope Name	LO	1
(300A,0228)	Source Isotope Half Life	DS	1
(300A,022A)	Reference Air Kerma Rate	DS	1
(300A,022C)	Air Kerma Rate Reference Date	DA	1
(300A,022E)	Air Kerma Rate Reference Time	TM	1
(300A,0230)	Application Setup Sequence	SQ	1
(300A,0232)	Application Setup Type	CS	1
(300A,0234)	Application Setup Number	IS	1
(300A,0236)	Application Setup Name	LO	1
(300A,0238)	Application Setup Manufacturer	LO	1
(300A,0240)	Template Number	IS	1
(300A,0242)	Template Type	SH	1
(300A,0244)	Template Name	LO	1
(300A,0250)	Total Reference Air Kerma	DS	1
(300A,0260)	Brachy Accessory Device Sequence	SQ	1
(300A,0262)	Brachy Accessory Device Number	IS	1
(300A,0263)	Brachy Accessory Device ID	SH	1

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Tag	Name	VR	VM
(300A,0264)	Brachy Accessory Device Type	CS	1
(300A,0266)	Brachy Accessory Device Name	LO	1
(300A,026A)	Brachy Accessory Device Nominal Thickness	DS	1
(300A,026C)	Brachy Accessory Device Nominal Transmission	DS	1
(300A,0280)	Channel Sequence	SQ	1
(300A,0282)	Channel Number	IS	1
(300A,0284)	Channel Length	DS	1
(300A,0286)	Channel Total Time	DS	1
(300A,0288)	Source Movement Type	CS	1
(300A,028A)	Number of Pulses	IS	1
(300A,028C)	Pulse Repetition Interval	DS	1
(300A,0290)	Source Applicator Number	IS	1
(300A,0291)	Source Applicator ID	SH	1
(300A,0292)	Source Applicator Type	CS	1
(300A,0294)	Source Applicator Name	LO	1
(300A,0296)	Source Applicator Length	DS	1
(300A,0298)	Source Applicator Manufacturer	LO	1
(300A,029C)	Source Applicator Wall Nominal Thickness	DS	1
(300A,029E)	Source Applicator Wall Nominal Transmission	DS	1
(300A,02A0)	Source Applicator Step Size	DS	1
(300A,02A2)	Transfer Tube Number	IS	1
(300A,02A4)	Transfer Tube Length	DS	1
(300A,02B0)	Channel Shield Sequence	SQ	1
(300A,02B2)	Channel Shield Number	IS	1
(300A,02B3)	Channel Shield ID	SH	1
(300A,02B4)	Channel Shield Name	LO	1
(300A,02B8)	Channel Shield Nominal Thickness	DS	1
(300A,02BA)	Channel Shield Nominal Transmission	DS	1
(300A,02C8)	Final Cumulative Time Weight	DS	1
(300A,02D0)	Brachy Control Point Sequence	SQ	1

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Tag	Name	VR	VM
(300A,02D2)	Control Point Relative Position	DS	1
(300A,02D4)	Control Point 3D Position	DS	3
(300A,02D6)	Cumulative Time Weight	DS	1

Tag	Name	VR	VM
(300C,0002)	Referenced RT Plan Sequence	SQ	1
(300C,0004)	Referenced Beam Sequence	SQ	1
(300C,0006)	Referenced Beam Number	IS	1
(300C,0007)	Referenced Reference Image Number	IS	1
(300C,0008)	Start Cumulative Meterset Weight	DS	1
(300C,0009)	End Cumulative Meterset Weight	DS	1
(300C,000A)	Referenced Brachy Application Setup Sequence	SQ	1
(300C,000C)	Referenced Brachy Application Setup Number	IS	1
(300C,000E)	Referenced Source Number	IS	1
(300C,0020)	Referenced Fraction Group Sequence	SQ	1
(300C,0022)	Referenced Fraction Group Number	IS	1
(300C,0040)	Referenced Verification Image Sequence	SQ	1
(300C,0042)	Referenced Reference Image Sequence	SQ	1
(300C,0050)	Referenced Dose Reference Sequence	SQ	1
(300C,0051)	Referenced Dose Reference Number	IS	1
(300C,0055)	Brachy Referenced Dose Reference Sequence	SQ	1
(300C,0060)	Referenced Structure Set Sequence	SQ	1
(300C,006A)	Referenced Patient Setup Number	IS	1
(300C,0080)	Referenced Dose Sequence	SQ	1
(300C,00A0)	Referenced Tolerance Table Number	IS	1
(300C,00B0)	Referenced Bolus Sequence	SQ	1
(300C,00C0)	Referenced Wedge Number	IS	1
(300C,00D0)	Referenced Compensator Number	IS	1
(300C,00E0)	Referenced Block Number	IS	1
(300C,00F0)	Referenced Control Point Index	IS	1

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Tag	Name	VR	VM

Tag	Name	VR	VM
(300E,0002)	Approval Status	CS	1
(300E,0004)	Review Date	DA	1
(300E,0005)	Review Time	TM	1
(300E,0008)	Reviewer Name	PN	1

Tag	Name	VR	VM
(4000,0010)	*Arbitrary*		*RET*
(4000,4000)	*Comments*		*RET*

Tag	Name	VR	VM
(4008,0040)	Results ID	SH	1
(4008,0042)	Results ID Issuer	LO	1
(4008,0050)	Referenced Interpretation Sequence	SQ	1
(4008,0100)	Interpretation Recorded Date	DA	1
(4008,0101)	Interpretation Recorded Time	TM	1
(4008,0102)	Interpretation Recorder	PN	1
(4008,0103)	Reference to Recorded Sound	LO	1
(4008,0108)	Interpretation Transcription Date	DA	1
(4008,0109)	Interpretation Transcription Time	TM	1
(4008,010A)	Interpretation Transcriber	PN	1
(4008,010B)	Interpretation Text	ST	1
(4008,010C)	Interpretation Author	PN	1
(4008,0111)	Interpretation Approver Sequence	SQ	1
(4008,0112)	Interpretation Approval Date	DA	1
(4008,0113)	Interpretation Approval Time	TM	1

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Tag	Name	VR	VM
(4008,0114)	Physician Approving Interpretation	PN	1
(4008,0115)	Interpretation Diagnosis Description	LT	1
(4008,0117)	Interpretation Diagnosis Code Sequence	SQ	1
(4008,0118)	Results Distribution List Sequence	SQ	1
(4008,0119)	Distribution Name	PN	1
(4008,011A)	Distribution Address	LO	1
(4008,0200)	Interpretation ID	SH	1
(4008,0202)	Interpretation ID Issuer	LO	1
(4008,0210)	Interpretation Type ID	CS	1
(4008,0212)	Interpretation Status ID	CS	1
(4008,0300)	Impressions	ST	1
(4008,4000)	Results Comments	ST	1

Tag	Name	VR	VM
(50xx,0005)	Curve Dimensions	US	1
(50xx,0010)	Number of Points	US	1
(50xx,0020)	Type of Data	CS	1
(50xx,0022)	Curve Description	LO	1
(50xx,0030)	Axis Units	SH	1-n
(50xx,0040)	Axis Labels	SH	1-n
(50xx,0103)	Data Value Representation	US	1
(50xx,0104)	Minimum Coordinate Value	US	1-n
(50xx,0105)	Maximum Coordinate Value	US	1-n
(50xx,0106)	Curve Range	SH	1-n
(50xx,0110)	Curve Data Descriptor	US	1-n
(50xx,0112)	Coordinate Start Value	US	1
(50xx,0114)	Coordinate Step Value	US	1
(50xx,1001)	Curve Activation Layer	CS	1
(50xx,2000)	Audio Type	US	1

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Tag	Name	VR	VM
(50xx,2002)	Audio Sample Format	US	1
(50xx,2004)	Number of Channels	US	1
(50xx,2006)	Number of Samples	UL	1
(50xx,2008)	Sample Rate	UL	1
(50xx,200A)	Total Time	UL	1
(50xx,200C)	Audio Sample Data	OW or OB	1
(50xx,200E)	Audio Comments	LT	1
(50xx,2500)	Curve Label	LO	1
(50xx,2600)	Referenced Overlay Sequence	SQ	1
(50xx,2610)	Referenced Overlay Group	US	1
(50xx,3000)	Curve Data	OW or OB	1

Tag	Name	VR	VM
(5400,0100)	Waveform Sequence	SQ	1
(5400,0110)	Channel Minimum Value	OB or OW	1
(5400,0112)	Channel Maximum Value	OB or OW	1
(5400,1004)	Waveform Bits Allocated	US	1
(5400,1006)	Waveform Sample Interpretation	CS	1
(5400,100A)	Waveform Padding Value	OB or OW	1
(5400,1010)	Waveform Data	OB or OW	1

Tag	Name	VR	VM
(60xx,0010)	Overlay Rows	US	1
(60xx,0011)	Overlay Columns	US	1
(60xx,0012)	Overlay Planes	US	1
(60xx,0015)	Number of Frames in Overlay	IS	1
(60xx,0022)	Overlay Description	LO	1
(60xx,0040)	Overlay Type	CS	1
(60xx,0045)	Overlay Subtype	LO	1

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Tag	Name	VR	VM	
(60xx,0050)	Overlay Origin	SS	2	
(60xx,0051)	Image Frame Origin	US	1	
(60xx,0052)	Overlay Plane Origin	US	1	
(60xx,0060)	*Compression Code*			*RET*
(60xx,0100)	Overlay Bits Allocated	US	1	
(60xx,0102)	Overlay Bit Position	US	1	
(60xx,0110)	*Overlay Format*			*RET*
(60xx,0200)	*Overlay Location*			*RET*
(60xx,1001)	Overlay Activation Layer	CS	1	
(60xx,1100)	Overlay Descriptor - Gray	US	1	*RET*
(60xx,1101)	Overlay Descriptor - Red	US	1	*RET*
(60xx,1102)	Overlay Descriptor - Green	US	1	*RET*
(60xx,1103)	Overlay Descriptor - Blue	US	1	*RET*
(60xx,1200)	Overlays- Gray	US	1-n	*RET*
(60xx,1201)	Overlays - Red	US	1-n	*RET*
(60xx,1202)	Overlays - Green	US	1-n	*RET*
(60xx,1203)	Overlays- Blue	US	1-n	*RET*
(60xx,1301)	ROI Area	IS	1	
(60xx,1302)	ROI Mean	DS	1	
(60xx,1303)	ROI Standard Deviation	DS	1	
(60xx,1500)	Overlay Label	LO	1	
(60xx,3000)	Overlay Data	OB or OW	1	
(60xx,4000)	*Comments*			*RET*

Tag	Name	VR	VM
(7FE0,0010)	Pixel Data	OW or OB	1

Tag	Name	VR	VM
(FFFC,FFFC)	Data Set Trailing Padding	OB	1

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Tag	Name	VR	VM

Tag	Name	VR	VM
(FFFE,E000)	Item	see note	1
(FFFE,E00D)	Item Delimitation Item	see note	1
(FFFE,E0DD)	Sequence Delimitation Item	see note	1

Note: The VR for Data Elements, Item (FFFE,E000), Item Delimitation Item (FFFE,E00D), and Sequence Delimitation Item (FFFE,E0DD) do not exist. See PS 3.5 for explanation.

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7 Registry of DICOM File Meta Elements

This section specifies the File Meta Elements needed to support the formatting of the File Meta Information of the DICOM File Format (See PS 3.10).

Tag	Name	VR	VM
(0002,0000)	Group Length	UL	1
(0002,0001)	File Meta Information Version	OB	1
(0002,0002)	Media Storage SOP Class UID	UI	1
(0002,0003)	Media Storage SOP Instance UID	UI	1
(0002,0010)	Transfer Syntax UID	UI	1
(0002,0012)	Implementation Class UID	UI	1
(0002,0013)	Implementation Version Name	SH	1
(0002,0016)	Source Application Entity Title	AE	1
(0002,0100)	Private Information Creator UID	UI	1
(0002,0102)	Private Information	OB	1

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8 Registry of DICOM directory structuring elements

Tag	Name	VR	VM
(0004,0000)	Group Length	UL	1
(0004,1130)	File-set ID	CS	1
(0004,1141)	File-set Descriptor File ID	CS	1-8
(0004,1142)	Specific Character Set of File-set Descriptor File	CS	1
(0004,1200)	Offset of the First Directory Record of the Root Directory Entity	UL	1
(0004,1202)	Offset of the Last Directory Record of the Root Directory Entity	UL	1
(0004,1212)	File-set Consistency Flag	US	1
(0004,1220)	Directory Record Sequence	SQ	1
(0004,1400)	Offset of the Next Directory Record	UL	1
(0004,1410)	Record In-use Flag	US	1
(0004,1420)	Offset of Referenced Lower-Level Directory Entity	UL	1
(0004,1430)	Directory Record Type	CS	1
(0004,1432)	Private Record UID	UI	1
(0004,1500)	Referenced File ID	CS	1-8
(0004,1504)	MRDR Directory Record Offset	UL	1
(0004,1510)	Referenced SOP Class UID in File	UI	1
(0004,1511)	Referenced SOP Instance UID in File	UI	1
(0004,1512)	Referenced Transfer Syntax UID in File	UI	1
(0004,1600)	Number of References	UL	1

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Annex A Registry of DICOM unique identifiers (UID) (Normative)

Table A-1 lists the UID values which are registered and used throughout the Parts of the DICOM Standard. This central registry ensures that when additional UIDs are assigned, non duplicate values are assigned.

Table A-1
UID VALUES

UID Value	UID NAME	UID TYPE	Part
1.2.840.10008.1.1	*Verification* SOP Class	SOP Class	PS 3.4
1.2.840.10008.1.2	Implicit VR Little Endian: Default Transfer Syntax for DICOM	Transfer Syntax	PS 3.5
1.2.840.10008.1.2.1	Explicit VR Little Endian	Transfer Syntax	PS 3.5
1.2.840.10008.1.2.2	Explicit VR Big Endian	Transfer Syntax	PS 3.5
1.2.840.10008.1.2.4.50	JPEG Baseline (Process 1): Default Transfer Syntax for Lossy JPEG 8 Bit Image Compression	Transfer Syntax	PS 3.5
1.2.840.10008.1.2.4.51	JPEG Extended (Process 2 & 4): Default Transfer Syntax for Lossy JPEG 12 Bit Image Compression (Process 4 only)	Transfer Syntax	PS 3.5
1.2.840.10008.1.2.4.52	JPEG Extended (Process 3 & 5)	Transfer Syntax	PS 3.5
1.2.840.10008.1.2.4.53	JPEG Spectral Selection, Non-Hierarchical (Process 6 & 8)	Transfer Syntax	PS 3.5
1.2.840.10008.1.2.4.54	JPEG Spectral Selection, Non-Hierarchical (Process 7 & 9)	Transfer Syntax	PS 3.5
1.2.840.10008.1.2.4.55	JPEG Full Progression, Non-Hierarchical (Process 10 & 12)	Transfer Syntax	PS 3.5
1.2.840.10008.1.2.4.56	JPEG Full Progression, Non-Hierarchical (Process 11 & 13)	Transfer Syntax	PS 3.5
1.2.840.10008.1.2.4.57	JPEG Lossless, Non-Hierarchical (Process 14)	Transfer Syntax	PS 3.5
1.2.840.10008.1.2.4.58	JPEG Lossless, Non-Hierarchical (Process 15)	Transfer Syntax	PS 3.5
1.2.840.10008.1.2.4.59	JPEG Extended, Hierarchical (Process 16 & 18)	Transfer Syntax	PS 3.5

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1.2.840.10008.1.2.4.60	JPEG Extended, Hierarchical (Process 17 & 19)	Transfer Syntax	PS 3.5
1.2.840.10008.1.2.4.61	JPEG Spectral Selection, Hierarchical (Process 20 & 22)	Transfer Syntax	PS 3.5
1.2.840.10008.1.2.4.62	JPEG Spectral Selection, Hierarchical (Process 21 & 23)	Transfer Syntax	PS 3.5
1.2.840.10008.1.2.4.63	JPEG Full Progression, Hierarchical (Process 24 & 26)	Transfer Syntax	PS 3.5
1.2.840.10008.1.2.4.64	JPEG Full Progression, Hierarchical (Process 25 & 27)	Transfer Syntax	PS 3.5
1.2.840.10008.1.2.4.65	JPEG Lossless, Hierarchical (Process 28)	Transfer Syntax	PS 3.5
1.2.840.10008.1.2.4.66	JPEG Lossless, Hierarchical (Process 29)	Transfer Syntax	PS 3.5
1.2.840.10008.1.2.4.70	JPEG Lossless, Non-Hierarchical, First-Order Prediction (Process 14 [Selection Value 1]): Default Transfer Syntax for Lossless JPEG Image Compression	Transfer Syntax	PS 3.5
1.2.840.10008.1.2.4.80	JPEG-LS Lossless Image Compression	Transfer Syntax	PS 3.5
1.2.840.10008.1.2.4.81	JPEG-LS Lossy (Near-Lossless) Image Compression	Transfer Syntax	PS 3.5
1.2.840.10008.1.2.5	RLE Lossless	Transfer Syntax	PS 3.5
1.2.840.10008.1.3.10	Media Storage Directory Storage	SOP Class	PS 3.4
1.2.840.10008.1.9	Basic Study Content Notification SOP Class	SOP Class	PS 3.4
1.2.840.10008.1.20.1	Storage Commitment Push Model SOP Class	SOP Class	PS 3.4
1.2.840.10008.1.20.1.1	Storage Commitment Push Model SOP Instance	Well-known SOP Instance	PS 3.4
1.2.840.10008.1.20.2	Storage Commitment Pull Model SOP Class	SOP Class	PS 3.4
1.2.840.10008.1.20.2.1	Storage Commitment Pull Model SOP Instance	Well-known SOP Instance	PS 3.4
1.2.840.10008.3.1.1.1	DICOM Application Context Name	Application Context Name	PS 3.7
1.2.840.10008.3.1.2.1.1	Detached Patient Management SOP Class	SOP Class	PS 3.4

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1.2.840.10008.3.1.2.1.4	Detached Patient Management Meta SOP Class	Meta SOP Class	PS 3.4
1.2.840.10008.3.1.2.2.1	Detached Visit Management SOP Class	SOP Class	PS 3.4
1.2.840.10008.3.1.2.3.1	Detached Study Management SOP Class	SOP Class	PS 3.4
1.2.840.10008.3.1.2.3.2	Study Component Management SOP Class	SOP Class	PS 3.4
1.2.840.10008.3.1.2.3.3	Modality Performed Procedure Step SOP Class	SOP Class	PS 3.4
1.2.840.10008.3.1.2.3.4	Modality Performed Procedure Step Retrieve SOP Class	SOP Class	PS 3.4
1.2.840.10008.3.1.2.3.5	Modality Performed Procedure Step Notification SOP Class	SOP Class	PS 3.4
1.2.840.10008.3.1.2.5.1	Detached Results Management SOP Class	SOP Class	PS 3.4
1.2.840.10008.3.1.2.5.4	Detached Results Management Meta SOP Class	Meta SOP Class	PS 3.4
1.2.840.10008.3.1.2.5.5	Detached Study Management Meta SOP Class	Meta SOP Class	PS 3.4
1.2.840.10008.3.1.2.6.1	Detached Interpretation Management SOP Class	SOP Class	PS 3.4
1.2.840.10008.5.1.1.1	Basic Film Session SOP Class	SOP Class	PS 3.4
1.2.840.10008.5.1.1.2	Basic Film Box SOP Class	SOP Class	PS 3.4
1.2.840.10008.5.1.1.4	Basic Grayscale Image Box SOP Class	SOP Class	PS 3.4
1.2.840.10008.5.1.1.4.1	Basic Color Image Box SOP Class	SOP Class	PS 3.4
1.2.840.10008.5.1.1.4.2	*Referenced Image Box SOP Class (Retired)*	*SOP Class*	*PS 3.4*
1.2.840.10008.5.1.1.9	Basic Grayscale Print Management Meta SOP Class	Meta SOP Class	PS 3.4
1.2.840.10008.5.1.1.9.1	*Referenced Grayscale Print Management Meta SOP Class (Retired)*	*Meta SOP Class*	*PS 3.4*
1.2.840.10008.5.1.1.14	Print Job SOP Class	SOP Class	PS 3.4
1.2.840.10008.5.1.1.15	Basic Annotation Box SOP Class	SOP Class	PS 3.4
1.2.840.10008.5.1.1.16	Printer SOP Class	SOP Class	PS 3.4

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1.2.840.10008.5.1.1.16.376	Printer Configuration Retrieval SOP Class	Well-known Printer SOP Instance	PS 3.4
1.2.840.10008.5.1.1.17	Printer SOP Instance	Well-known Printer SOP Instance	PS 3.4
1.2.840.10008.5.1.1.17.376	Printer Configuration Retrieval SOP Instance	Well-known Printer SOP Instance	PS 3.4
1.2.840.10008.5.1.1.18	Basic Color Print Management Meta SOP Class	Meta SOP Class	PS 3.4
1.2.840.10008.5.1.1.18.1	*Referenced Color Print Management Meta SOP Class (Retired)*	*Meta SOP Class*	*PS 3.4*
1.2.840.10008.5.1.1.22	VOI LUT Box SOP Class	SOP Class	PS 3.4
1.2.840.10008.5.1.1.23	Presentation LUT SOP Class	SOP Class	PS 3.4
1.2.840.10008.5.1.1.24	*Image Overlay Box SOP Class (Retired)*	*SOP Class*	*PS 3.4*
1.2.840.10008.5.1.1.24.1	Basic Print Image Overlay Box SOP Class	SOP Class	PS 3.4
1.2.840.10008.5.1.1.25	Print Queue SOP Instance	Well-known Print Queue SOP Instance	PS 3.4
1.2.840.10008.5.1.1.26	Print Queue Management SOP Class	SOP Class	PS 3.4
1.2.840.10008.5.1.1.27	Stored Print Storage SOP Class	SOP Class	PS 3.4
1.2.840.10008.5.1.1.29	Hardcopy Grayscale Image Storage SOP Class	SOP Class	PS 3.4
1.2.840.10008.5.1.1.30	Hardcopy Color Image Storage SOP Class	SOP Class	PS 3.4
1.2.840.10008.5.1.1.31	Pull Print Request SOP Class	SOP Class	PS 3.4
1.2.840.10008.5.1.1.32	Pull Stored Print Management Meta SOP Class	Meta SOP Class	PS 3.4
1.2.840.10008.5.1.4.1.1.1	Computed Radiography Image Storage	SOP Class	PS 3.4
1.2.840.10008.5.1.4.1.1.1.1	Digital X-Ray Image Storage - For Presentation	SOP Class	PS 3.4
1.2.840.10008.5.1.4.1.1.1.1.1	Digital X-Ray Image Storage - For Processing	SOP Class	PS 3.4
1.2.840.10008.5.1.4.1.1.1.2	Digital Mammography X-Ray Image Storage - For Presentation	SOP Class	PS 3.4
1.2.840.10008.5.1.4.1.1.1.2.1	Digital Mammography X-Ray Image Storage - For Processing	SOP Class	PS 3.4

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1.2.840.10008.5.1.4.1.1.1.3	Digital Intra-oral X-Ray Image Storage - For Presentation	SOP Class	PS 3.4
1.2.840.10008.5.1.4.1.1.1.3.1	Digital Intra-oral X-Ray Image Storage - For Processing	SOP Class	PS 3.4
1.2.840.10008.5.1.4.1.1.2	CT Image Storage	SOP Class	PS 3.4
1.2.840.10008.5.1.4.1.1.3	*Ultrasound Multi-frame Image Storage (Retired)*	*SOP Class*	*PS 3.4*
1.2.840.10008.5.1.4.1.1.3.1	Ultrasound Multi-frame Image Storage	SOP Class	PS 3.4
1.2.840.10008.5.1.4.1.1.4	MR Image Storage	SOP Class	PS 3.4
1.2.840.10008.5.1.4.1.1.5	*Nuclear Medicine Image Storage (Retired)*	*SOP Class*	*PS 3.4*
1.2.840.10008.5.1.4.1.1.6	*Ultrasound Image Storage (Retired)*	*SOP Class*	*PS 3.4*
1.2.840.10008.5.1.4.1.1.6.1	Ultrasound Image Storage	SOP Class	PS 3.4
1.2.840.10008.5.1.4.1.1.7	Secondary Capture Image Storage	SOP Class	PS 3.4
1.2.840.10008.5.1.4.1.1.8	Standalone Overlay Storage	SOP Class	PS 3.4
1.2.840.10008.5.1.4.1.1.9	Standalone Curve Storage	SOP Class	PS 3.4
1.2.840.10008.5.1.4.1.1.9.1.1	12-lead ECG Waveform Storage	SOP Class	PS 3.4
1.2.840.10008.5.1.4.1.1.9.1.2	General ECG Waveform Storage	SOP Class	PS 3.4
1.2.840.10008.5.1.4.1.1.9.1.3	Ambulatory ECG Waveform Storage	SOP Class	PS 3.4
1.2.840.10008.5.1.4.1.1.9.2.1	Hemodynamic Waveform Storage	SOP Class	PS 3.4
1.2.840.10008.5.1.4.1.1.9.3.1	Cardiac Electrophysiology Waveform Storage	SOP Class	PS 3.4
1.2.840.10008.5.1.4.1.1.9.4.1	Basic Voice Audio Waveform Storage	SOP Class	PS 3.4
1.2.840.10008.5.1.4.1.1.10	Standalone Modality LUT Storage	SOP Class	PS 3.4
1.2.840.10008.5.1.4.1.1.11	Standalone VOI LUT Storage	SOP Class	PS 3.4
1.2.840.10008.5.1.4.1.1.11.1	Grayscale Softcopy Presentation State Storage SOP Class	SOP Class	PS 3.4
1.2.840.10008.5.1.4.1.1.12.1	X-Ray Angiographic Image Storage	SOP Class	PS 3.4
1.2.840.10008.5.1.4.1.1.12.2	X-Ray Radiofluoroscopic Image Storage	SOP Class	PS 3.4
1.2.840.10008.5.1.4.1.1.12.3	*X-Ray Angiographic Bi-Plane Image Storage (Retired)*	*SOP Class*	*PS 3.4*

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1.2.840.10008.5.1.4.1.1.20	Nuclear Medicine Image Storage	SOP Class	PS 3.4
1.2.840.10008.5.1.4.1.1.77.1	*VL Image Storage (Retired)*		
1.2.840.10008.5.1.4.1.1.77.2	*VL Multi-frame Image Storage (Retired)*		
1.2.840.10008.5.1.4.1.1.77.1.1	VL Endoscopic Image Storage	SOP Class	PS 3.4
1.2.840.10008.5.1.4.1.1.77.1.2	VL Microscopic Image Storage	SOP Class	PS 3.4
1.2.840.10008.5.1.4.1.1.77.1.3	VL Slide-Coordinates Microscopic Image Storage	SOP Class	PS 3.4
1.2.840.10008.5.1.4.1.1.77.1.4	VL Photographic Image Storage	SOP Class	PS 3.4
1.2.840.10008.5.1.4.1.1.88.11	Basic Text SR	SOP Class	PS 3.4
1.2.840.10008.5.1.4.1.1.88.22	Enhanced SR	SOP Class	PS 3.4
1.2.840.10008.5.1.4.1.1.88.33	Comprehensive SR	SOP Class	PS 3.4
1.2.840.10008.5.1.4.1.1.128	Positron Emission Tomography Image Storage	SOP Class	PS 3.4
1.2.840.10008.5.1.4.1.1.129	Standalone PET Curve Storage	SOP Class	PS 3.4
1.2.840.10008.5.1.4.1.1.481.1	RT Image Storage	SOP Class	PS 3.4
1.2.840.10008.5.1.4.1.1.481.2	RT Dose Storage	SOP Class	PS 3.4
1.2.840.10008.5.1.4.1.1.481.3	RT Structure Set Storage	SOP Class	PS 3.4
1.2.840.10008.5.1.4.1.1.481.4	RT Beams Treatment Record Storage	SOP Class	PS 3.4
1.2.840.10008.5.1.4.1.1.481.5	RT Plan Storage	SOP Class	PS 3.4
1.2.840.10008.5.1.4.1.1.481.6	RT Brachy Treatment Record Storage	SOP Class	PS 3.4
1.2.840.10008.5.1.4.1.1.481.7	RT Treatment Summary Record Storage	SOP Class	PS 3.4
1.2.840.10008.5.1.4.1.2.1.1	Patient Root Query/Retrieve Information Model - FIND	SOP Class	PS 3.4
1.2.840.10008.5.1.4.1.2.1.2	Patient Root Query/Retrieve Information Model - MOVE	SOP Class	PS 3.4
1.2.840.10008.5.1.4.1.2.1.3	Patient Root Query/Retrieve Information Model - GET	SOP Class	PS 3.4
1.2.840.10008.5.1.4.1.2.2.1	Study Root Query/Retrieve Information Model - FIND	SOP Class	PS 3.4
1.2.840.10008.5.1.4.1.2.2.2	Study Root Query/Retrieve Information Model - MOVE	SOP Class	PS 3.4

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1.2.840.10008.5.1.4.1.2.2.3	Study Root Query/Retrieve Information Model - GET	SOP Class	PS 3.4
1.2.840.10008.5.1.4.1.2.3.1	Patient/Study Only Query/Retrieve Information Model - FIND	SOP Class	PS 3.4
1.2.840.10008.5.1.4.1.2.3.2	Patient/Study Only Query/Retrieve Information Model - MOVE	SOP Class	PS 3.4
1.2.840.10008.5.1.4.1.2.3.3	Patient/Study Only Query/Retrieve Information Model - GET	SOP Class	PS 3.4
1.2.840.10008.5.1.4.31	Modality Worklist Information Model - FIND	SOP Class	PS 3.4

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Annex B – DICOM Terminology Mapping Resource
Registry of Context Groups and Controlled Terminology

Table B-1 defines the Coding Schemes utilized in the controlled terminology specified in this Annex.

Table B-1
CODING SCHEME VALUES

SNM3	SNOMED Version 3
SRT	SNOMED RT
DCM	DICOM
SCPECG	Standard Communications Protocol for Computer-Assisted Electrocardiography, Draft proposal for ISO Standard, AAMI, Revision 1.3
BARI	Bypass Angiography Revascularization Investigation, Alderman, EL and Stadius, M, Coronary Artery Disease 1992,3:1189-1207; endorsed by ACC/AHA Guidelines for Coronary Angiography, J Am Coll Cardiol 1999,33:1791
UCUM	The Unified Code for Units of Measure. Gunther Schadow Clement J. McDonald. The Regenstrief Institute For Health Care, Indianapolis

Context Group ID **3001**
Context Group Name **ECG leads**

Coding Scheme	Coding Scheme Version	Code Value	Code Meaning
SCPECG	1.3	5.6.3-9-73	Defibrillator lead: anterior-lateral
SCPECG	1.3	5.6.3-9-74	External pacing lead: anterior-posterior
SCPECG	1.3	5.6.3-9-27	Lead A
SCPECG	1.3	5.6.3-9-71	Lead A (Nehb – Anterior)
SCPECG	1.3	5.6.3-9-75	Lead A1 (Auxiliary unipolar lead 1)
SCPECG	1.3	5.6.3-9-76	Lead A2 (Auxiliary unipolar lead 2)
SCPECG	1.3	5.6.3-9-77	Lead A3 (Auxiliary unipolar lead 3)
SCPECG	1.3	5.6.3-9-78	Lead A4 (Auxiliary unipolar lead 4)
SCPECG	1.3	5.6.3-9-57	Lead A-cal
SCPECG	1.3	5.6.3-9-84	Lead A-cal (cal for Nehb – Anterior)
SCPECG	1.3	5.6.3-9-64	Lead aVF
SCPECG	1.3	5.6.3-9-63	Lead aVL
SCPECG	1.3	5.6.3-9-62	Lead aVR
SCPECG	1.3	5.6.3-9-65	Lead -aVR
SCPECG	1.3	5.6.3-9-26	Lead C

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SCPECG	1.3	5.6.3-9-19	Lead CC5
SCPECG	1.3	5.6.3-9-49	Lead CC5-cal
SCPECG	1.3	5.6.3-9-56	Lead C-cal
SCPECG	1.3	5.6.3-9-20	Lead CM5
SCPECG	1.3	5.6.3-9-50	Lead CM5-cal
SCPECG	1.3	5.6.3-9-70	Lead D (Nehb – Dorsal)
SCPECG	1.3	5.6.3-9-83	Lead D-cal (cal for Nehb – Dorsal)
SCPECG	1.3	5.6.3-9-25	Lead E
SCPECG	1.3	5.6.3-9-55	Lead E-cal
SCPECG	1.3	5.6.3-9-29	Lead F
SCPECG	1.3	5.6.3-9-59	Lead F-cal
SCPECG	1.3	5.6.3-9-30	Lead H
SCPECG	1.3	5.6.3-9-60	Lead H-cal
SCPECG	1.3	5.6.3-9-1	Lead I (Einthoven)
SCPECG	1.3	5.6.3-9-24	Lead I (Frank)
SCPECG	1.3	5.6.3-9-31	Lead I-cal (Einthoven)
SCPECG	1.3	5.6.3-9-54	Lead I-cal (Frank)
SCPECG	1.3	5.6.3-9-2	Lead II
SCPECG	1.3	5.6.3-9-32	Lead II-cal
SCPECG	1.3	5.6.3-9-61	Lead III
SCPECG	1.3	5.6.3-9-72	Lead J (Nehb – Inferior)
SCPECG	1.3	5.6.3-9-85	Lead J-cal (cal for Nehb – Inferior)
SCPECG	1.3	5.6.3-9-21	Lead Left Arm
SCPECG	1.3	5.6.3-9-51	Lead Left Arm-cal
SCPECG	1.3	5.6.3-9-23	Lead Left Leg
SCPECG	1.3	5.6.3-9-53	Lead Left Leg-cal
SCPECG	1.3	5.6.3-9-28	Lead M
SCPECG	1.3	5.6.3-9-58	Lead M-cal
SCPECG	1.3	5.6.3-9-22	Lead Right Arm
SCPECG	1.3	5.6.3-9-52	Lead Right Arm-cal
SCPECG	1.3	5.6.3-9-3	Lead V1
SCPECG	1.3	5.6.3-9-33	Lead V1-cal
SCPECG	1.3	5.6.3-9-4	Lead V2
SCPECG	1.3	5.6.3-9-34	Lead V2-cal
SCPECG	1.3	5.6.3-9-10	Lead V2R
SCPECG	1.3	5.6.3-9-40	Lead V2R-cal
SCPECG	1.3	5.6.3-9-5	Lead V3

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SCPECG	1.3	5.6.3-9-35	Lead V3-cal
SCPECG	1.3	5.6.3-9-11	Lead V3R
SCPECG	1.3	5.6.3-9-41	Lead V3R-cal
SCPECG	1.3	5.6.3-9-6	Lead V4
SCPECG	1.3	5.6.3-9-36	Lead V4-cal
SCPECG	1.3	5.6.3-9-12	Lead V4R
SCPECG	1.3	5.6.3-9-42	Lead V4R-cal
SCPECG	1.3	5.6.3-9-7	Lead V5
SCPECG	1.3	5.6.3-9-37	Lead V5-cal
SCPECG	1.3	5.6.3-9-13	Lead V5R
SCPECG	1.3	5.6.3-9-43	Lead V5R-cal
SCPECG	1.3	5.6.3-9-8	Lead V6
SCPECG	1.3	5.6.3-9-38	Lead V6-cal
SCPECG	1.3	5.6.3-9-14	Lead V6R
SCPECG	1.3	5.6.3-9-44	Lead V6R-cal
SCPECG	1.3	5.6.3-9-9	Lead V7
SCPECG	1.3	5.6.3-9-39	Lead V7-cal
SCPECG	1.3	5.6.3-9-15	Lead V7R
SCPECG	1.3	5.6.3-9-45	Lead V7R-cal
SCPECG	1.3	5.6.3-9-66	Lead V8
SCPECG	1.3	5.6.3-9-79	Lead V8-cal
SCPECG	1.3	5.6.3-9-68	Lead V8R
SCPECG	1.3	5.6.3-9-81	Lead V8R-cal
SCPECG	1.3	5.6.3-9-67	Lead V9
SCPECG	1.3	5.6.3-9-80	Lead V9-cal
SCPECG	1.3	5.6.3-9-69	Lead V9R
SCPECG	1.3	5.6.3-9-82	Lead V9R-cal
SCPECG	1.3	5.6.3-9-16	Lead X
SCPECG	1.3	5.6.3-9-46	Lead X-cal
SCPECG	1.3	5.6.3-9-17	Lead Y
SCPECG	1.3	5.6.3-9-47	Lead Y-cal
SCPECG	1.3	5.6.3-9-18	Lead Z
SCPECG	1.3	5.6.3-9-48	Lead Z-cal
SCPECG	1.3	5.6.3-9-0	Unspecified lead

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Context Group ID **3003**
Context Group Name ***Hemodynamic waveform sources***

Coding Scheme	Coding Scheme Version	Code Value	Code Meaning
SRT	V1	G-DB22	Aortic pressure waveform
SRT	V1	G-DB31	Aortic valve pullback pressure waveform
SRT	V1	G-DB24	Arterial pressure waveform
SRT	V1	G-DB23	Central venous pressure waveform
SRT	V1	G-DB33	Dye dilution cardiac output waveform
SRT	V1	G-DB20	Femoral artery pressure waveform
SRT	V1	G-DB34	Hemodynamic impedance waveform
SRT	V1	G-DB19	Left atrium pressure waveform
SRT	V1	G-DB16	Left ventricle pressure waveform
SRT	V1	G-DB28	Mitral valve pullback pressure waveform
SRT	V1	G-DB25	Pulmonary artery oxygen saturation waveform
SRT	V1	G-DB21	Pulmonary artery pressure waveform
SRT	V1	G-DB27	Pulmonary artery wedge pressure waveform
SRT	V1	G-DB26	Pulmonary capillary wedge pressure waveform
SRT	V1	G-DB30	Pulmonary valve pullback pressure waveform
SRT	V1	G-DB18	Right atrium pressure waveform
SRT	V1	G-DB17	Right ventricle pressure waveform
SRT	V1	G-DB32	Thermal cardiac output waveform
SRT	V1	G-DB29	Tricuspid valve pullback pressure waveform

Context Group ID **3010**
Context Group Name **Cardiovascular anatomic locations**

Coding Scheme	Coding Scheme Version	Code Value	Code Meaning
SNM3	3.4	T-42500	Abdominal aorta
SRT	V1	T-48503	Anomalous pulmonary vein
SRT	V1	T-49215	Antecubital vein
SNM3	3.5	T-45530	Anterior communicating artery
SNM3	3.5	T-45730	Anterior spinal artery
SNM3	3.5	T-47700	Anterior tibial artery
SNM3	3.4	T-42000	Aorta
SNM3	3.5	T-42300	Aortic arch
SRT	V1	D3-81922	Aortic fistula
SRT	V1	T-32602	Apex of left ventricle

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SRT	V1	T-32502	Apex of right ventricle
SNM3	3.5	T-41000	Artery
SNM3	3.5	T-42100	Ascending aorta
SNM3	3.4	T-47100	Axillary Artery
SNM3	3.5	T-49110	Axillary vein
SNM3	3.4	T-48340	Azygos vein
SRT	V1	A-00203	Baffle
SNM3	3.5	T-45800	Basilar artery
SNM3	3.5	T-D00AB	Body conduit
SRT	V1	T-49424	Boyd's perforating vein
SNM3	3.5	T-47160	Brachial artery
SNM3	3.4	T-49350	Brachial vein
SNM3	3.5	T-46010	Brachiocephalic artery
SNM3	3.5	T-46010	Brachiocephalic trunk
SNM3	3.5	T-48620	Brachiocephalic vein
SNM3	3.4	T-45010	Carotid Artery
SNM3	3.5	T-49240	Cephalic vein
SNM3	3.5	T-45510	Cerebral artery
SNM3	3.5	D4-31320	Common atrium
SNM3	3.5	T-45100	Common carotid artery
SNM3	3.5	D4-31120	Common ventricle
SRT	V1	D4-32504	Congenital coronary artery fistula to left atrium
SRT	V1	D4-32506	Congenital coronary artery fistula to left ventricle
SRT	V1	D4-32509	Congenital coronary artery fistula to right atrium
SRT	V1	D4-32510	Congenital coronary artery fistula to right ventricle
SNM3	3.5	D3-40208	Congenital pulmonary arteriovenous fistula
SRT	V1	D4-33142	Congenital pulmonary artery conduit
SRT	V1	D4-33512	Congenital pulmonary vein confluence
SRT	V1	D4-33514	Congenital pulmonary venous atrium
SRT	V1	D4-33516	Congenital systemic venous atrium
SNM3	3.5	T-43000	Coronary artery
SNM3	3.5	T-48410	Coronary sinus
SNM3	3.4	T-42400	Descending aorta
SRT	V1	T-49429	Dodd's perforating vein
SNM3	3.5	T-45240	Facial artery
SNM3	3.5	T-47400	Femoral artery
SNM3	3.4	T-49410	Femoral vein

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SNM3	3.5	T-48820	Gastric vein
SRT	V1	T-47490	Genicular artery
SNM3	3.5	T-46420	Hepatic artery
SNM3	3.5	T-48720	Hepatic vein
SRT	V1	T-4942A	Hunterian perforating vein
SNM3	3.5	T-46700	Iliac artery
SNM3	3.4	T-48540	Inferior left pulmonary vein
SNM3	3.5	T-48520	Inferior right pulmonary vein
SNM3	3.5	T-48710	Inferior vena cava
SNM3	3.5	T-46010	Innominate artery
SNM3	3.4	T-48620	Innominate vein
SNM3	3.5	T-45300	Internal carotid artery
SNM3	3.5	T-48170	Internal jugular vein
SNM3	3.5	T-46200	Internal mammary artery
SRT	V1	D4-31052	Juxtaposed atrial appendage
SNM3	3.5	T-45410	Lacrimal artery
SRT	V1	T-45416	Lacrimal artery of right eye
SNM3	3.5	T-32300	Left atrium
SNM3	3.5	T-32310	Left auricular appendage
SNM3	3.4	T-44400	Left pulmonary artery
SNM3	3.5	T-32600	Left ventricle
SNM3	3.5	T-32640	Left ventricle inflow
SRT	V1	D4-31022	Left ventricle outflow chamber
SNM3	3.5	T-32640	Left ventricle outflow tract
SNM3	3.5	T-45230	Lingual artery
SNM3	3.5	T-46960	Lumbar artery
SNM3	3.5	T-46500	Mesenteric artery
SRT	V1	T-4884A	Mesenteric vein
SNM3	3.5	T-45250	Occipital artery
SNM3	3.5	T-48214	Occipital vein
SNM3	3.5	T-45400	Ophthalmic artery
SNM3	3.5	D4-32012	Patent ductus arteriosus
SNM3	3.5	T-47630	Peroneal artery
SNM3	3.5	T-47500	Popliteal artery
SNM3	3.5	T-48810	Portal vein
SNM3	3.5	T-45320	Posterior communication artery
SRT	V1	T-49535	Posterior medial tributary

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SNM3	3.5	T-47600	Posterior tibial artery
SNM3	3.5	T-F7001	Primitive aorta
SNM3	3.5	T-F7040	Primitive pulmonary artery
SNM3	3.5	T-44000	Pulmonary artery
SRT	V1	T-32190	Pulmonary chamber of cor triatriatum
SNM3	3.5	T-48500	Pulmonary vein
SNM3	3.5	T-47300	Radial artery
SNM3	3.5	T-46600	Renal artery
SNM3	3.5	T-48740	Renal vein
SNM3	3.5	T-32200	Right atrium
SNM3	3.5	T-32210	Right auricular appendage
SNM3	3.5	T-47410	Right femoral artery
SNM3	3.5	T-44200	Right pulmonary artery
SNM3	3.5	T-32500	Right ventricle
SNM3	3.5	T-32540	Right ventricle inflow
SRT	V1	D4-31022	Right ventricle outflow chamber
SNM3	3.5	T-32550	Right ventricle outflow tract
SRT	V1	T-D930A	Saphenofemoral junction
SNM3	3.5	T-49530	Saphenous vein
SNM3	3.5	T-48890	Splenic vein
SNM3	3.5	T-46100	Subclavian artery
SNM3	3.5	T-48330	Subclavian vein
SNM3	3.5	T-45270	Superficial temporal artery
SNM3	3.5	T-48530	Superior left pulmonary vein
SNM3	3.5	T-48510	Superior right pulmonary vein
SNM3	3.5	T-45210	Superior thyroid artery
SNM3	3.5	T-48610	Superior vena cava
SRT	V1	T-44007	Systemic collateral artery to lung
SNM3	3.5	T-42070	Thoracic aorta
SNM3	3.5	D4-31400	Truncus arteriosus communis
SNM3	3.5	T-F1810	Umbilical artery
SNM3	3.5	T-48817	Umbilical vein
SNM3	3.5	T-48000	Vein
SNM3	3.4	T-48170	Vena jugularis interna
SNM3	3.5	T-48003	Venous network
SNM3	3.5	T-45700	Vertebral artery

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Context Group ID 3011
Context Group Name Electrophysiology anatomic locations

Coding Scheme	Coding Scheme Version	Code Value	Code Meaning
SNM3	3.5	T-32850	Accessory atrioventricular bundle
SRT	V1	T-32602	Apex of left ventricle
SRT	V1	T-32502	Apex of right ventricle
SNM3	3.5	T-32830	Atrioventricular bundle
SNM3	3.5	T-32820	Atrioventricular node
SNM3	3.5	T-32400	Common ventricle
SNM3	3.5	T-48410	Coronary sinus
SNM3	3.5	T-39010	Epicardium
SNM3	3.5	T-48420	Great cardiac vein
SRT	V1	G-DE02	High right atrium
SNM3	3.5	T-48540	Inferior left pulmonary vein
SNM3	3.5	T-48520	Inferior right pulmonary vein
SRT	V1	G-DE04	Lateral high right atrium
SNM3	3.5	T-32833	Left anterior division of left branch of left atrioventricular bundle
SNM3	3.5	T-32300	Left Atrium
SNM3	3.5	T-32310	Left auricular appendage
SNM3	3.5	T-32832	Left branch of atrioventricular bundle
SNM3	3.5	T-32834	Left posterior division of left branch of left atrioventricular bundle
SNM3	3.5	T-32600	Left ventricle
SNM3	3.5	T-32640	Left ventricle inflow
SNM3	3.5	T-32640	Left ventricle outflow tract
SRT	V1	G-DE08	Low right atrium
SRT	V1	G-DE06	Mid right atrium
SNM3	3.5	T-48430	Middle cardiac vein
SNM3	3.5	T-35310	Mitral ring
SNM3	3.5	T-48411	Ostium of coronary sinus
SNM3	3.5	T-48500	Pulmonary vein
SNM3	3.5	T-35210	Pulmonic ring
SNM3	3.5	T-32840	Purkinje fibers
SNM3	3.5	T-35120	Right atrioventricular ostium
SNM3	3.5	T-32200	Right Atrium
SNM3	3.5	T-32210	Right auricular appendage

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SNM3	3.5	T-32831	Right branch of Atrioventricular bundle
SNM3	3.5	T-32500	Right ventricle
SNM3	3.5	T-32540	Right ventricle inflow
SNM3	3.5	T-32550	Right ventricle outflow tract
SNM3	3.5	T-32810	Sino-atrial node
SNM3	3.5	T-48530	Superior left pulmonary vein
SNM3	3.5	T-48510	Superior right pulmonary vein
SRT	V1	T-32202	Tendon of Todaro
SNM3	3.5	T-35110	Tricuspid ring

Context Group ID **3014**
Context Group Name **Coronary artery segments**

Coding Scheme	Coding Scheme Version	Code Value	Code Meaning
BARI	1992	15	1st Diagonal Coronary Artery
BARI	1992	24	1st Left Posterolateral Coronary Artery
BARI	1992	20	1st Marginal Coronary Artery
BARI	1992	6	1st Right posterolateral
BARI	1992	17	1st Septal Coronary Artery
BARI	1992	16	2nd Diagonal Coronary Artery
BARI	1992	25	2nd Left Posterolateral Coronary Artery
BARI	1992	21	2nd Marginal Coronary Artery
BARI	1992	7	2nd Right posterolateral
BARI	1992	29	3rd diagonal
BARI	1992	26	3rd Left Posterolateral Coronary Artery
BARI	1992	22	3rd Marginal Coronary Artery
BARI	1992	8	3rd Right posterolateral
BARI	1992	10	Acute Marginal
BARI	1992	23	AV groove continuation
BARI	1992	19A	Distal Circumflex Coronary Artery
BARI	1992	14	Distal Left Anterior Descending Coronary Artery
BARI	1992	3	Distal Right Coronary Artery
BARI	1992	15A	Lateral 1st Diagonal Coronary Artery
BARI	1992	20A	Lateral 1st Marginal Coronary Artery
BARI	1992	16A	Lateral 2nd Diagonal Coronary Artery
BARI	1992	21A	Lateral 2nd Marginal Coronary Artery
BARI	1992	29A	Lateral 3rd Diagonal

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BARI	1992	22A	Lateral 3rd Marginal Coronary Artery
BARI	1992	28A	Lateral Ramus
BARI	1992	11	Left Main Coronary Artery
BARI	1992	11A	Left Main Coronary Artery Ostium
BARI	1992	27	Left Posterior Descending Artery
BARI	1992	19	Mid Circumflex Coronary Artery
BARI	1992	13	Mid Left Anterior Descending Coronary Artery
BARI	1992	2	Mid Right Coronary Artery
BARI	1992	4	Posterior Descending Right Coronary Artery
BARI	1992	9	Posterior descending septal perforators
BARI	1992	18	Proximal Circumflex Coronary Artery
BARI	1992	12	Proximal Left Anterior Descending Coronary Artery
BARI	1992	1	Proximal Right Coronary Artery
BARI	1992	28	Ramus
BARI	1992	1A	Right Coronary Artery Ostium
BARI	1992	5	Right posterior AV

Context Group ID **3019**
Context Group Name **Cardiovascular Anatomic Location Modifiers**

Coding Scheme	Coding Scheme Version	Code Value	Code Meaning
SNM3	3.5	G-A105	Anterior
SRT	V1	G-D873	Arterial graft to cited segment
SNM3	3.5	GA110	Central
SNM3	3.5	G-A119	Distal
SRT	V1	G-D870	Graft to cited body segment
SRT	V1	G-D872	Graft to distal anastomosis
SRT	V1	G-D871	Graft to proximal anastomosis
SNM3	3.5	G-A115	Inferior
SRT	V1	G-A104	Lateral
SNM3	3.5	G-A101	Left
SRT	V1	T-3215A	Ostium
SNM3	3.5	G-A106	Posterior
SNM3	3.5	G-A118	Proximal
SNM3	3.5	G-A100	Right
SNM3	3.5	G-A116	Superior
SRT	V1	G-D874	Venous graft to cited segment

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Context Group ID **3082**
Context Group Name **Waveform Units of Measurement**

Coding Scheme	Coding Scheme Version	Code Value	Code Meaning
UCUM	1.4	dB(A)	A scale of loudness
UCUM	1.4	[arb'U]	arbitrary unit
UCUM	1.4	d	day
UCUM	1.4	dB	decibel
UCUM	1.4	Cel	degrees Celsius
UCUM	1.4	{H.B.}/min	Heart beat per minute
UCUM	1.4	hr	hour
UCUM	1.4	J	Joule
UCUM	1.4	kOhm	kilo Ohm
UCUM	1.4	km/hr	kilometer per hour
UCUM	1.4	kPa	kiloPascal
UCUM	1.4	l/min	liter per minute
UCUM	1.5	[MET]	Metabolic equivalent
UCUM	1.4	uV	microvolt
UCUM	1.4	[mi_i]/hr	mile per hour
UCUM	1.4	ml/min	milliliter per minute
UCUM	1.4	ml/s	milliliter per second
UCUM	1.4	mm[Hg]	millimeter of mercury
UCUM	1.4	mV	millivolt
UCUM	1.4	min	minute
UCUM	1.4	mm/s	mm/s
UCUM	1.4	%	percent
UCUM	1.4	s	second
UCUM	1.4	1	unary, no units
UCUM	1.4	V	volt
UCUM	1.4	W	Watt

Context Group ID **3090**
Context Group Name **Time Synchronization channel types**

Coding Scheme	Coding Scheme Version	Code Value	Code Meaning
DCM	01	109001	Digital timecode (NOS)
DCM	01	109002	ECG-based gating signal, processed
DCM	01	109003	IRIG-B timecode

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DCM	01	109004	X-ray Fluoroscopy On Signal
DCM	01	109005	X-ray On Trigger

Context Group ID **3240**
Context Group Name **Electrophysiology measurement functions and techniques**

Coding Scheme	Coding Scheme Version	Code Value	Code Meaning
DCM	01	109006	Differential signal
DCM	01	109007	His bundle electrogram
DCM	01	109008	Monopole signal
DCM	01	109009	Pacing (electrical) stimulus, voltage
DCM	01	109010	Radio frequency ablation, power
DCM	01	109011	Voltage measurement by basket catheter
DCM	01	109012	Voltage measurement by mapping catheter
DCM	01	109013	Voltage measurement, NOS

Context Group ID **3241**
Context Group Name **Hemodynamic measurement techniques**

Coding Scheme	Coding Scheme Version	Code Value	Code Meaning
SRT	V1	PA-50038	Averaged hemodynamic measurement method
SRT	V1	PA-50035	Composite hemodynamic measurement method
SRT	V1	PA-50034	Computed hemodynamic measurement method
SRT	V1	PA-50031	Dual catheter method
SRT	V1	PA-50039	Fluid filled catheter method
SRT	V1	PA-50033	Pullback method
SRT	V1	PA-50032	Pulmonary capillary wedge method
SRT	V1	PA-50036	Static catheter method
SRT	V1	PA-5003A	Tip manometer method
SRT	V1	PA-50037	Wedge method

Context Group ID **3250**
Context Group Name **Catheterization Procedure Phase**

Coding Scheme	Coding Scheme Version	Code Value	Code Meaning
SRT	V1	G-7299	Cardiac catheterization bailout phase
SRT	V1	G-7293	Cardiac catheterization baseline phase
SRT	V1	G-7294	Cardiac catheterization image acquisition phase

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SRT	V1	G-7295	Cardiac catheterization intervention phase
SRT	V1	G-729B	Cardiac catheterization post contrast phase
SRT	V1	G-7298	Cardiac catheterization post-intervention phase
SRT	V1	G-7296	Cardiac catheterization pre-intervention phase
SRT	V1	G-7297	Cardiac catheterization therapy phase
SRT	V1	P1-3160A	Catheterization of both left and right heart with graft
SRT	V1	P1-3160B	Catheterization of both left and right heart without graft
SNM3	3.5	P1-31604	Catheterization of left heart
SNM3	3.5	P1-31602	Catheterization of right heart

Context Group ID **3254**
Context Group Name **Electrophysiology Procedure Phase**

Coding Scheme	Coding Scheme Version	Code Value	Code Meaning
SRT	V1	G-729D	Atrial Effective Refractory Period, evaluation of
SRT	V1	G-7304	Carotid Sinus Massage procedure phase
SRT	V1	G-7306	Electrophysiology Mapping phase
SRT	V1	G-729A	Electrophysiology procedure baseline phase
SRT	V1	G-7408	Post-ablation phase
SRT	V1	G-7305	Post-defibrillation procedure phase
SRT	V1	G-729F	Radiofrequency Ablation procedure phase
SRT	V1	G-729C	Sinus Node Recovery Time, evaluation of
SRT	V1	G-729E	Ventricular Effective Refractory Period, evaluation of

Context Group ID **3261**
Context Group Name **Stress Protocols**

Coding Scheme	Coding Scheme Version	Code Value	Code Meaning
SRT	V1	P2-7131C	Balke protocol
SRT	V1	P2-7131A	Bruce protocol
SRT	V1	P2-7131D	Ellestad protocol
SRT	V1	P2-7131B	Modified Bruce protocol
SRT	V1	P2-713A1	Modified Naughton protocol
SRT	V1	P2-713A0	Naughton protocol
SRT	V1	P2-7131F	Pepper protocol
SRT	V1	P2-7131E	Ramp protocol

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Context Group ID 3262
Context Group Name ECG Patient State Values

Coding Scheme	Coding Scheme Version	Code Value	Code Meaning
SRT	V1	F-01602	Baseline state
SRT	V1	F-01606	Exercise state
SRT	V1	F-01608	Post-exercise state
SRT	V1	F-01604	Resting state
SNM3	3.5	F-10340	Supine body position

Context Group ID 3263
Context Group Name Electrode Placement Values

Coding Scheme	Coding Scheme Version	Code Value	Code Meaning
SCPECG	1.3	5.4.5-33-1-5	12-lead ECG derived from Frank XYZ leads
SCPECG	1.3	5.4.5-33-1-6	12-lead ECG derived from non-standard leads
SCPECG	1.3	5.4.5-33-1-2	Mason-Likar positions: RA, RL, LA, and LL placed on the torso. V1 to V6 placed at standard positions on the chest. All electrodes are placed individually.
SCPECG	1.3	5.4.5-33-1-3	Mason-Likar with V pad: RA, RL, LA, and LL individually placed on the torso. V1 to V6 placed on the chest as part of a single electrode pad (not placed individually).
SCPECG	1.3	5.4.5-33-1-4	Single electrode pad: All electrodes placed on the chest in a single electrode pad. None of the electrodes are placed individually
SCPECG	1.3	5.4.5-33-1-1	Standard 12-lead positions: RA, RL, LA, and LL placed at limb extremities; V1 to V6 placed at standard positions on the chest. All electrodes are placed individually.
SCPECG	1.3	5.4.5-33-1-0	Unspecified

Context Group ID 3264
Context Group Name XYZ Electrode Placement Values

Coding Scheme	Coding Scheme Version	Code Value	Code Meaning
SCPECG	1.3	5.4.5-33-2-4	Bipolar uncorrected XYZ lead system
SCPECG	1.3	5.4.5-33-2-3	Cube lead system (Grishman et al, Amer Heart J 1951; 41:483).
SCPECG	1.3	5.4.5-33-2-1	Frank lead system (Frank, 1956; 13:737)
SCPECG	1.3	5.4.5-33-2-2	McFee-Parungao lead system (Benchimol, Vectorcardiography, Williams & Wilkins, Baltimore, 1973, Fig 1.6 on page 6)
SCPECG	1.3	5.4.5-33-2-5	Pseudo-orthogonal XYZ lead system (as used in Holter

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			recording)
SCPECG	1.3	5.4.5-33-2-0	Unspecified
SCPECG	1.3	5.4.5-33-2-6	XYZ leads derived from standard 12-lead ECG

Context Group ID 3271
Context Group Name **Hemodynamic Physiological Challenges**

Coding Scheme	Coding Scheme Version	Code Value	Code Meaning
SRT	V1	P2-71310	Exercise challenge
SRT	V1	P2-71306	Handgrip
SRT	V1	P2-71302	Head up
SRT	V1	P2-71314	Held inspiration
SRT	V1	P2-71316	Held ventilation
SRT	V1	P2-71304	Leg up
SRT	V1	P2-71308	Negative lower body pressure
SRT	V1	P2-71318	Post volume challenge
SRT	V1	P2-71312	Vagal stimulation
SNM3	3.5	F-F7102	Valsalva maneuver

Context Group ID 3335
Context Group Name **ECG Annotations**

Coding Scheme	Coding Scheme Version	Code Value	Code Meaning
SCPECG	1.3	5.7.1-3	Fiducial point
SCPECG	1.3	D.4.1-J	J point
SCPECG	1.3	D.4.1-ST20	J point + 20 msec
SCPECG	1.3	D.4.1-ST60	J point + 60 msec
SCPECG	1.3	D.4.1-ST80	J point +80 msec
SCPECG	1.3	5.10.3-2	P wave end
SCPECG	1.3	5.10.3-1	P wave onset
SCPECG	1.3	D.4.1-P	P wave peak
SCPECG	1.3	5.10.1.2	Pacemaker spike, suppressed
SCPECG	1.3	D.4.1-PR	PR segment (isoelectric point)
SCPECG	1.3	D.4.1-Q	Q wave
SCPECG	1.3	5.10.3-4	QRS end
SCPECG	1.3	5.10.3-3	QRS onset
SCPECG	1.3	D.4.1-R	R wave peak

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SCPECG	1.3	D.4.1-R2	R' peak
SCPECG	1.3	D.4.1-S	S wave
SCPECG	1.3	D.4.1-S2	S' wave
SCPECG	1.3	5.10.3-5	T wave end
SCPECG	1.3	D.4.1-STE	T wave onset
SCPECG	1.3	D.4.1-T	T wave peak
SCPECG	1.3	D.4.1-U	U wave peak

Context Group ID **3337**
Context Group Name **Hemodynamic Annotations**

Coding Scheme	Coding Scheme Version	Code Value	Code Meaning
DCM	01	109014	35% of thermal CO
DCM	01	109015	70% of thermal CO
DCM	01	109016	A wave
DCM	01	109017	A wave average
DCM	01	109018	Beat detected (accepted)
DCM	01	109019	Beat detected (rejected)
DCM	01	109020	Diastolic average
DCM	01	109021	Diastolic nadir
DCM	01	109022	End diastole
DCM	01	109023	End of expiration
DCM	01	109024	End of inspiration
DCM	01	109025	Max dp/dt
DCM	01	109026	Max neg dp/dt
DCM	01	109027	Mean pressure
DCM	01	109028	Peak of thermal CO
DCM	01	109029	Start of expiration
DCM	01	109030	Start of inspiration
DCM	01	109031	Start of thermal CO
DCM	01	109032	Systolic average
DCM	01	109033	Systolic peak
DCM	01	109034	V wave
DCM	01	109035	V wave average
DCM	01	109036	Valve close
DCM	01	109037	Valve open

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Context Group ID 3339
Context Group Name Electrophysiology Annotations

Coding Scheme	Coding Scheme Version	Code Value	Code Meaning
DCM	01	109038	Ablation off
DCM	01	109039	Ablation on
DCM	01	109040	HIS bundle wave
DCM	01	109041	P wave
DCM	01	109042	Q wave
DCM	01	109043	R wave
DCM	01	109044	S wave
DCM	01	109045	Start of atrial contraction
DCM	01	109046	Start of atrial contraction (subsequent)
DCM	01	109047	Stimulation at rate 1 interval
DCM	01	109048	Stimulation at rate 2 interval
DCM	01	109049	Stimulation at rate 3 interval
DCM	01	109050	Stimulation at rate 4 interval
DCM	01	109051	T wave
DCM	01	109052	V wave
DCM	01	109053	V wave of next beat

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Annex C – Registry of Templates

In this annex, for each template, each concept is optional, and may only occur once.

BCID stands for Baseline Context Group ID.

For numeric value types, when the value set is specified as "Units: unary", then the enumerated values for the item of Measurement Units Code Sequence (0040,A30A) shall be:

- Code Value "1"
- Coding Meaning "unary, no units"
- Coding Scheme Designator "UCUM"
- Coding Scheme Version "1.4"

Template ID 3401
Template Name ECG Acquisition Context

Concept Name				Concept Value	
Code Meaning	Coding Scheme	Coding Scheme Version	Code Value	Value Type	Value Set
Electrode Placement	SCPECG	1.3	5.4.5-33-1	CODE	BCID 3263
Patient State	DCM	01	109054	CODE	BCID 3262
Protocol Stage	DCM	01	109055	NUMERIC	Units: unary
Stress Protocol	DCM	01	109056	CODE	BCID 3261
XYZ Electrode Configuration	SCPECG	1.3	5.4.5-33-2	CODE	BCID 3264

Template ID 3403
Template Name Catheterization Acquisition Context

Concept Name				Concept Value	
Code Meaning	Coding Scheme	Coding Scheme Version	Code Value	Value Type	Value Set
Catheterization Procedure Phase	DCM	01	109057	CODE	BCID 3250
Contrast Phase	DCM	01	109058	CODE	BCID 3250
Physiological challenges	DCM	01	109059	CODE	BCID 3271
Procedure Step Number	DCM	01	109060	NUMERIC	Units: unary

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Template ID **3450**
Template Name **Cardiac Electrophysiology Acquisition Context**

Concept Name				Concept Value	
Code Meaning	Coding Scheme	Coding Scheme Version	Code Value	Value Type	Value Set
EP Procedure Phase	DCM	01	109061	CODE	BCID 3254
Procedure Step Number	DCM	01	109060	NUMERIC	Units: unary
Pulse train definition	DCM	01	109063	TEXT	

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