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# DICOM

## *Part 6*

# Data Dictionary



DICOM®

*Digital Imaging and Communications in Medicine*

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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<br>or OW | 1-n<br>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 |
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| (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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|---|---|---|---|
| (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,00B8) | 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 |
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| 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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