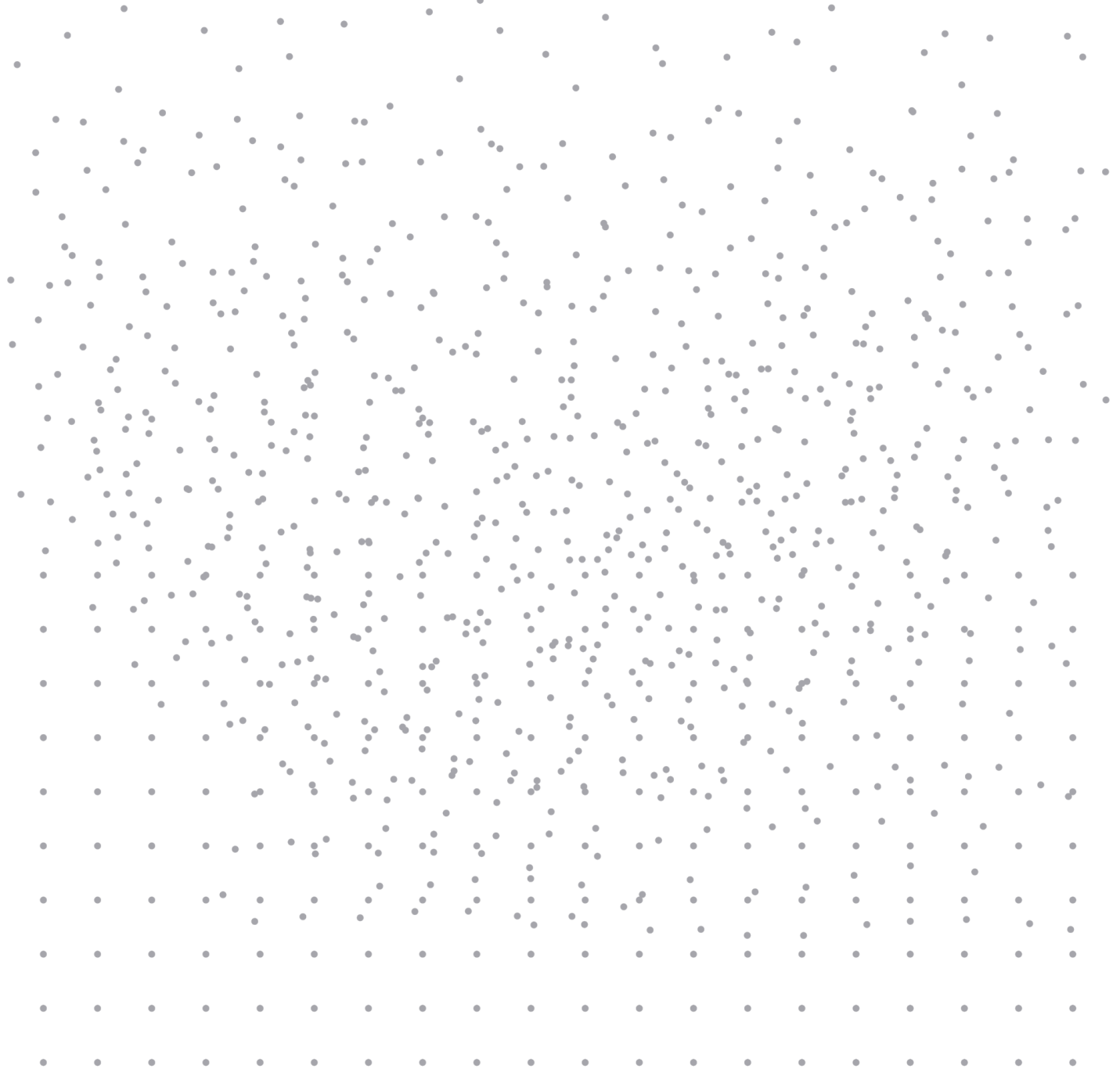


DICOM Conformance Statement

Cercare Medical Neurosuite



Cercare Medical

Application version: 17.2, build date: 2025-08-23

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1 Conformance Statement Overview

Cercare Medical Neurosuite supports receiving single frame and multiframe images acquired from CT and MR modalities. Additionally, Cercare Medical Neurosuite supports exporting calculated (derived) images as either single frame or presentation state DICOM data.

Cercare Medical Neurosuite further supports encrypted DICOM networking using TLS (Transport Layer Security) if required.

SOP Classes	User of Service (SCU)	Provider of Service (SCP)
Transfer		
CT Image Storage	Yes	Yes
MR Image Storage	Yes	Yes
Enhanced MR Image Storage	No	Yes
Enhanced CT Image Storage	No	Yes
Secondary Capture Image Storage	Yes	Yes
X-Ray 3D Angiographic Image Storage	No	Yes

2 Introduction

This document is intended as a reference document, primarily for determining DICOM compatibility during integration of CMN into existing DICOM networks.

This document contains the DICOM conformance statement associated with version 17.2 of Cercare Medical Neurosuite (CMN) as described in DICOM PS3.2 2021b.

2.1 Revision History

Date	Initiator	Description of Change
2022-10-03	Rene Thomsen	Initial release for CMN
2023-05-31	Rene Thomsen	Added 'Outgoing DICOM fields' section
2024-10-10	Bodil Crone Buchsti	Updated supported SOP classes for SCP and SCU

2.2 Audience

This document is written for the people that need to understand how Cercare Medical Neurosuite will integrate into their healthcare facility. This includes both those responsible for overall imaging network policy and architecture, as well as integrators who need to have a detailed understanding of the DICOM features of the product. This document contains some basic DICOM definitions so that any reader may understand how this product implements DICOM features. However, integrators are expected to fully understand all the DICOM terminology, how the tables in this document relate to the product's functionality, and how that functionality integrates with other devices that support compatible DICOM features.

2.3 Remarks

The scope of this DICOM Conformance Statement is to facilitate integration between Cercare Medical Neurosuite and other DICOM products. The Conformance Statement should be read and understood in conjunction with the DICOM Standard. DICOM by itself does not guarantee interoperability. The Conformance Statement does, however, facilitate a first-level comparison for interoperability between different applications supporting compatible DICOM functionality.

This Conformance Statement is not supposed to replace validation with other DICOM equipment to ensure proper exchange of intended information. In fact, the user should be aware of the following important issues:

- The comparison of different Conformance Statements is just the first step towards assessing interconnectivity and interoperability between the product and other DICOM conformant equipment.
- Test procedures should be defined and executed to validate the required level of interoperability with specific compatible DICOM equipment, as established by the healthcare facility.

2.4 Terms and definitions

2.4.0.1 Abstract Syntax

The information agreed to be exchanged between applications, generally equivalent to a Service/Object Pair (SOP) Class. Examples : Verification SOP Class, Modality Worklist Information Model Find SOP Class, Computed Radiography Image Storage SOP Class.

2.4.0.2 Application Entity (AE)

An end point of a DICOM information exchange, including the DICOM network or media interface software; i.e., the software that sends or receives DICOM information objects or messages. A single device may have multiple Application Entities.

2.4.0.3 Application Entity Title

The externally known name of an Application Entity, used to identify a DICOM application to other DICOM applications on the network.

2.4.0.4 Application Context

The specification of the type of communication used between Application Entities. Example: DICOM network protocol.

2.4.0.5 Association

A network communication channel set up between Application Entities.

2.4.0.6 Attribute

A unit of information in an object definition; a data element identified by a tag. The information may be a complex data structure (Sequence), itself composed of lower level data elements. Examples: Patient ID (0010,0020), Accession Number (0008,0050), Photometric Interpretation (0028,0004), Procedure Code Sequence (0008,1032).

2.4.0.7 Information Object Definition (IOD)

The specified set of Attributes that comprise a type of data object; does not represent a specific instance of the data object, but rather a class of similar data objects that have the same properties. The Attributes may be specified as Mandatory (Type 1), Required but possibly unknown (Type 2), or Optional (Type 3), and there may be conditions associated with the use of an Attribute (Types 1C and 2C). Examples: MR Image IOD, CT Image IOD, Print Job IOD.

2.4.0.8 Joint Photographic Experts Group (JPEG)

A set of standardized image compression techniques, available for use by DICOM applications.

2.4.0.9 Media Application Profile

The specification of DICOM information objects and encoding exchanged on removable media (e.g., CDs)

2.4.0.10 Module

A set of Attributes within an Information Object Definition that are logically related to each other. Example: Patient Module includes Patient Name, Patient ID, Patient Birth Date, and Patient Sex.

2.4.0.11 Negotiation

First phase of Association establishment that allows Application Entities to agree on the types of data to be exchanged and how that data will be encoded.

2.4.0.12 Presentation Context

The set of DICOM network services used over an Association, as negotiated between Application Entities; includes Abstract Syntaxes and Transfer Syntaxes.

2.4.0.13 Protocol Data Unit (PDU)

A packet (piece) of a DICOM message sent across the network. Devices must specify the maximum size packet they can receive for DICOM messages.

2.4.0.14 Security Profile

A set of mechanisms, such as encryption, user authentication, or digital signatures, used by an Application Entity to ensure confidentiality, integrity, and/or availability of exchanged DICOM data

2.4.0.15 Service Class Provider (SCP)

Role of an Application Entity that provides a DICOM network service; typically, a server that performs operations requested by another Application Entity (Service Class User). Examples: Picture Archiving and Communication System (image storage SCP, and image query/retrieve SCP), Radiology Information System (modality worklist SCP).

2.4.0.16 Service Class User (SCU)

Role of an Application Entity that uses a DICOM network service; typically, a client. Examples: imaging modality (image storage SCU, and modality worklist SCU), imaging workstation (image query/retrieve SCU)

2.4.0.17 Service/Object Pair (SOP) Class

The specification of the network or media transfer (service) of a particular type of data (object); the fundamental unit of DICOM interoperability specification. Examples: Ultrasound Image Storage Service, Basic Grayscale Print Management.

2.4.0.18 Service/Object Pair (SOP) Instance

An information object; a specific occurrence of information exchanged in a SOP Class. Examples: a specific x-ray image.

2.4.0.19 Tag

A 32-bit identifier for a data element, represented as a pair of four digit hexadecimal numbers, the "group" and the "element". If the "group" number is odd, the tag is for a private (manufacturer-specific) data element. Examples: (0010,0020) [Patient ID], (07FE,0010) [Pixel Data], (0019,0210) [private data element]

2.4.0.20 Transfer Syntax

The encoding used for exchange of DICOM information objects and messages. Examples: JPEGcompressed (images), little endian explicit value representation.

2.4.0.21 Unique Identifier (UID)

A globally unique "dotted decimal" string that identifies a specific object or a class of objects; an ISO-8824 Object Identifier. Examples: Study Instance UID, SOP Class UID, SOP Instance UID.

2.4.0.22 Value Representation (VR)

The format type of an individual DICOM data element, such as text, an integer, a person's name, or a code. DICOM information objects can be transmitted with either explicit identification of the type of each data element (Explicit VR), or without explicit identification (Implicit VR); with Implicit VR, the receiving application must use a DICOM data dictionary to look up the format of each data element.

2.5 Basics of DICOM Communication

Cercare Medical Neurosuite accepts and produces data sets in the DICOM format. DICOM is a standard format for storing and transmitting medical image data in vendor neutral format and is managed by the DICOM Standards Committee.

This section describes terminology used in this Conformance Statement for the non-specialist. The key terms used in the Conformance Statement are highlighted in *italics* below. This section is not a substitute for training about DICOM, and it makes many simplifications about the meanings of DICOM terms.

Two Application Entities (devices) that want to communicate with each other over a network using DICOM protocol must first agree on several things during an initial network "handshake". One of the two devices must initiate an Association (a connection to the other device), and ask if specific services, information, and encoding can be supported by the other device (Negotiation).

DICOM specifies a number of network services and types of information objects, each of which is called an Abstract Syntax for the Negotiation. DICOM also specifies a variety of methods for encoding data, denoted Transfer Syntaxes. The Negotiation allows the initiating Application Entity to propose combinations of Abstract Syntax and Transfer Syntax to be used on the Association; these combinations are called Presentation Contexts. The receiving Application Entity accepts the Presentation Contexts it supports.

For each Presentation Context, the Association Negotiation also allows the devices to agree on Roles - which one is the Service Class User (SCU - client) and which is the Service Class Provider (SCP - server). Normally the device initiating the connection is the SCU, i.e., the client system calls the server, but not always.

The Association Negotiation finally enables exchange of maximum network packet (PDU) size, security information, and network service options (called Extended Negotiation information).

The Application Entities, having negotiated the Association parameters, may now commence exchanging data. Common data exchanges include queries for worklists and lists of stored images, transfer of image objects and analyses (structured reports), and sending images to film printers. Each exchangeable unit of data is formatted by the sender in accordance with the appropriate Information Object Definition, and sent using the negotiated Transfer Syntax. There is a Default Transfer Syntax that all systems must accept, but it may not be the most efficient for some use cases. Each transfer is explicitly acknowledged by the receiver with a Response Status indicating success, failure, or that query or retrieve operations are still in process.

Two Application Entities may also communicate with each other by exchanging media. Since there is no Association Negotiation possible, they both use a Media Application Profile that specifies "pre-negotiated" exchange media format, Abstract Syntax, and Transfer Syntax.

2.6 Abbreviations

2.7 References

Please refer to 2.3080 Instructions for use Cercare Medical Neurosuite for information about configuring DICOM communication in CMN.

Please refer to NEMA PS3 Digital Imaging and Communications in Medicine (DICOM) Standard, available free at <http://medical.nema.org/> for further information about DICOM.

3 Networking

CMN is able to participate in a DICOM network and supports both the SCU and SCP roles. DICOM data may be pushed to CMN and CMN supports transmitting generated images back to other DICOM peers as the images become available.

3.1 Implementation model

The Implementation model consists of three sections: the Application Data Flow Diagram, specifying the relationship between the Application Entities and the "external world" or Real-World activities, a functional description of each Application Entity, and the sequencing constraints among them.

3.1.1 Application data flow

An application data flow diagram is included below. This diagram represents all of the Application Entities present in an implementation, and graphically depicts the relationship of the AEs use of DICOM to Real-World Activities as well as applicable User interaction.

- **Application Entity CMN SCU** The CMN SCU AE is activated when CMN needs to export generated images to a remote DICOM peer. Activation may occur as a result of a user explicitly exporting an image or because CMN was configured to automatically export generated images.
- **Application Entity CMN SCP** The CMN SCP AE is activated when a remote DICOM peer wants to store DICOM images in CMN. This activity may in turn be a result of an automated process or a manual request made by a user.

Table 1: Provider of service supported SOP

Abbreviation	Description
AE	Application Entity
AET	Application Entity Title
CT	Computed Tomography
DNS	Domain Name System
DICOM	Digital Imaging and Communications in Medicine
GSPS	Grayscale Softcopy Presentation State
IOD	Information Object Definition
IPv4	Internet Protocol version 4
IPv6	Internet Protocol version 6
ISO	International Organization for Standards
LUT	Look-up Table
MR	Magnetic Resonance Imaging
PACS	Picture Archiving and Communication System
RIS	Radiology Information System
SC	Secondary Capture
SCP	Service Class Provider
SCU	Service Class User
SOP	Service-Object Pair
TCP/IP	Transmission Control Protocol/Internet Protocol
VR	Value Representation

3.1.2 Functional definition of AEs

This Part contains a functional definition for each individual local Application Entity

3.1.2.1 Functional definition of CMN SCU

The CMN SCU AE uses DICOM C-STORE operations to export generated images to a configured DICOM peer node.

3.1.2.2 Functional definition of CMN SCP

The CMN SCP AE accepts DICOM C-STORE operations to receive DICOM images to be used for processing or display.

3.2 AE Specifications

The following sections contain a set of Application Entity Specifications. One such specification for each Application Entity. Each individual AE Specification has a subsection. There are as many of these subsections as there are different AEs in the implementation.

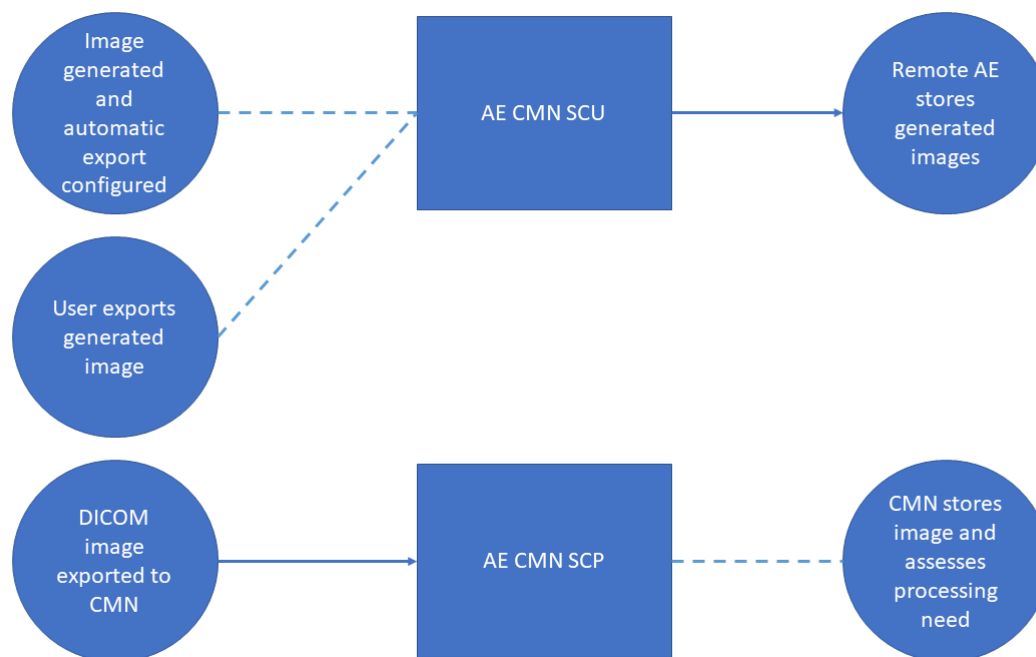


Figure 1: Application data flow

3.2.1 CMN SCU

3.2.1.1 SOP Classes

This Application Entity provides Standard Conformance to the following SOP Classes:

SOP Class Bane	SOP Class UID
CT Image Storage	1.2.840.10008.5.1.4.1.1.2
MR Image Storage	1.2.840.10008.5.1.4.1.1.4
Secondary Capture Image Storage	1.2.840.10008.5.1.4.1.1.7

*Additional SOP Classes can be configured as needed

3.2.1.2 Association policies

The AE Specification contains a description of the General Association Establishment and Acceptance policies of the AE.

3.2.1.2.1 General

Application Context Name	1.2.840.10008.3.1.1.1
--------------------------	-----------------------

3.2.1.2.2 Number of associations

By default this AE will permit itself to establish an unlimited number of associations, including multiple associations to the same remote DICOM peer. For each exported DICOM image series, a separate association will be established.

The maximum number of global, parallel association can be limited in the CMN settings, to set a global maximum on the number of concurrent associations permitted. This maximum applies across all associations, even if they are to multiple remote DICOM peers.

3.2.1.2.3 Asynchronous nature

This AE does not support asynchronous operations.

3.2.1.2.4 Implementation Identifying Information

Implementation class UID	1.2.826.0.1.3680043.2.1143.107.104.103.115.2.8.8.111.124.113
Implementation version name	CMN 17.2

3.2.1.3 Association initiation policy

This describes the conditions under which the AE will initiate an association.

The CMN SCU AE is activated when CMN needs to export generated images to a remote DICOM peer. Activation may occur as a result of a user explicitly exporting an image or because CMN was configured to automatically export generated images.

3.2.1.4 Association Acceptance Policy

The CMN SCU AE does not accept incoming association requests.

3.2.2 CMN SCP

3.2.2.1 SOP Classes

This Application Entity provides Standard Conformance to the following SOP Classes:

SOP Class Name	SOP Class UID
CT Image Storage	1.2.840.10008.5.1.4.1.1.2
MR Image Storage	1.2.840.10008.5.1.4.1.1.4
Enhanced MR Image Storage	1.2.840.10008.5.1.4.1.1.4.1
Enhanced CT Image Storage	1.2.840.10008.5.1.4.1.1.2.1
Secondary Capture Image Storage	1.2.840.10008.5.1.4.1.1.7
X-Ray 3D Angiographic Image Storage	1.2.840.10008.5.1.4.1.1.13.1.1

*Additional SOP Classes can be configured as needed

3.2.2.2 Association policies

The AE Specification contains a description of the General Association Establishment and Acceptance policies of the AE.

Table 2: Provider of service supported SOP

Presentation context	Presentation context UID	Supported
Verification SCP	1.2.840.10008.1.1	Yes
CT Image Storage	1.2.840.10008.5.1.4.1.1.2	Yes
Enhanced CT Image Storage	1.2.840.10008.5.1.4.1.1.2.1	Yes
Enhanced MR Image Storage	1.2.840.10008.5.1.4.1.1.4.1	Yes
MR Image Storage	1.2.840.10008.5.1.4.1.1.4	Yes
Secondary Capture Image Storage	1.2.840.10008.5.1.4.1.1.7	Yes
X-Ray 3D Angiographic Image Storage	1.2.840.10008.5.1.4.1.1.13.1.1	Yes
Comprehensive SR Storage	1.2.840.10008.5.1.4.1.1.88.33	Yes

Application Context Name	1.2.840.10008.3.1.1.1
--------------------------	-----------------------

3.2.2.2.1 General

3.2.2.2.2 Number of associations

The SCM SCP AE accepts an unlimited number of concurrent associations, constrained only by computational, general system, and networking constraints.

3.2.2.2.3 Asynchronous nature

This AE does not support asynchronous operations.

3.2.2.2.4 Implementation Identifying Information

Implementation class UID	1.2.826.0.1.3680043.2.1143.107.104.103.115.2.8.8.111.124.113
Implementation version name	CMN 17.2

3.2.2.3 Association initiation policy

The CMN SCP AE does not initiate association requests.

3.2.2.4 Association Acceptance Policy

The CMN SCP AE is activated when a remote DICOM peer wants to store DICOM images in CMN. This activity may in turn be a result of an automated process or a manual request made by a user.

3.3 Network Interfaces

3.3.1 Physical Network Interface

CMN supports the DICOM upper layer using TCP/IP. CMN is indifferent to the physical medium over which TCP/IP executes. CMN inherits this from the operating system upon which it executes.

3.3.2 Additional Protocols

The usage of DNS and DHCP is possible and is based on the network configuration of the operating system CMN executes on.

3.4 Configuration

CMN supports a number of configuration parameters which control port numbers, AE titles and more. This is documented in the document "2.3080 Instructions for use Cercare Medical Neurosuite" document provided with CMN.

4 Media Interchange

CMN does not support media interchange.

5 Transformation of DICOM to CDA

CMN does not support transformation of DICOM to CDA.

6 Support of character sets

CMN supports UTF-16 (Unicode Transformation Format 16-bit) as extended character sets.

7 Security

7.1 Security Profiles

CMN supports secure transport connections using TLS.

7.2 Association level security

CMN does not support association level security.

7.3 Application Level Security

CMN does not support application level security.

8 Annexes

8.1 IOD Contents

8.1.1 Created SOP instances

CMN can create the following SOP instances. VNAP refers to "Value Not Always Present".

9 Incoming DICOM fields

During operation CMN reads a large number of DICOM header fields to correctly read and interpret image data. The fields read (and therefore the fields required to be present) depend on the source modality and the types of images being analyzed.

SOP	Presence
CT Image Storage	VNAP
MR Image Storage	VNAP
Grayscale Softcopy Presentation State Storage	VNAP
Color Softcopy Presentation State Storage	VNAP
Secondary Capture Image Storage	VNAP

The following tables describe all the DICOM single and multi frame tags that are supported by CMN during import grouped by pipeline.

DICOM tag	DICOM tag name	State
Series: ct-angiography		
(0x0008,0x0005)	SpecificCharacterSet	Required
(0x0008,0x0008)	ImageType	Required
(0x0008,0x0016)	SOPClassUID	Required
(0x0008,0x0018)	SOPInstanceUID	Required
(0x0008,0x0020)	StudyDate	Required
(0x0008,0x0021)	SeriesDate	Required
(0x0008,0x0022)	AcquisitionDate	Required
(0x0008,0x0023)	ContentDate	Required
(0x0008,0x002a)	AcquisitionDateTime	Required
(0x0008,0x0030)	StudyTime	Required
(0x0008,0x0031)	SeriesTime	Required
(0x0008,0x0032)	AcquisitionTime	Required
(0x0008,0x0033)	ContentTime	Required
(0x0008,0x0060)	Modality	Required
(0x0008,0x0070)	Manufacturer	Required
(0x0008,0x0080)	InstitutionName	Required
(0x0008,0x0090)	ReferringPhysicianName	Required
(0x0008,0x1010)	StationName	Required
(0x0008,0x1030)	StudyDescription	Required
(0x0008,0x103e)	SeriesDescription	Required
(0x0008,0x1040)	InstitutionalDepartmentName	Required
(0x0008,0x1090)	ManufacturerModelName	Required
(0x0008,0x2111)	DerivationDescription	Required

(0x0010,0x0010)	PatientName	Required
(0x0010,0x0020)	PatientID	Required
(0x0010,0x0040)	PatientSex	Required
(0x0010,0x1010)	PatientAge	Required
(0x0018,0x0010)	ContrastBolusAgent	Required
(0x0018,0x0022)	ScanOptions	Required
(0x0018,0x0050)	SliceThickness	Required
(0x0018,0x0080)	RepetitionTime	Required
(0x0018,0x0081)	EchoTime	Required
(0x0018,0x0082)	InversionTime	Required
(0x0018,0x0088)	SpacingBetweenSlices	Required
(0x0018,0x1030)	ProtocolName	Required
(0x0018,0x1120)	GantryDetectorTilt	Required
(0x0018,0x1314)	FlipAngle	Required
(0x0020,0x000d)	StudyInstanceUID	Required
(0x0020,0x000e)	SeriesInstanceUID	Required
(0x0020,0x0010)	StudyID	Required
(0x0020,0x0011)	SeriesNumber	Required
(0x0020,0x0012)	AcquisitionNumber	Required
(0x0020,0x0013)	InstanceNumber	Required
(0x0020,0x0032)	ImagePositionPatient	Required
(0x0020,0x0037)	ImageOrientationPatient	Required
(0x0020,0x0052)	FrameOfReferenceUID	Required
(0x0020,0x0105)	NumberOfTemporalPositions	Required
(0x0020,0x1002)	ImagesInAcquisition	Required
(0x0028,0x0004)	PhotometricInterpretation	Required
(0x0028,0x0010)	Rows	Required
(0x0028,0x0011)	Columns	Required
(0x0028,0x0030)	PixelSpacing	Required
(0x0028,0x0100)	BitsAllocated	Required
(0x0028,0x0101)	BitsStored	Required
(0x0028,0x0102)	HighBit	Required
(0x0028,0x1050)	WindowCenter	Required
(0x0028,0x1051)	WindowWidth	Required

(0x0028,0x1052)	RescaleIntercept	Required
(0x0028,0x1053)	RescaleSlope	Required
(0x0028,0x1054)	RescaleType	Required
(0x0059,0x0012)	PrivateCreator	Required
(0x0059,0x0013)	PrivateCreator	Required
(0x0059,0x0014)	PrivateCreator	Required
(0x0061,0x1001)	Unknown Tag & Data	Required
Series: ct-noncontrast		
(0x0008,0x0005)	SpecificCharacterSet	Required
(0x0008,0x0008)	ImageType	Required
(0x0008,0x0016)	SOPClassUID	Required
(0x0008,0x0018)	SOPInstanceUID	Required
(0x0008,0x0020)	StudyDate	Required
(0x0008,0x0021)	SeriesDate	Required
(0x0008,0x0022)	AcquisitionDate	Required
(0x0008,0x0023)	ContentDate	Required
(0x0008,0x002a)	AcquisitionDateTime	Required
(0x0008,0x0030)	StudyTime	Required
(0x0008,0x0031)	SeriesTime	Required
(0x0008,0x0032)	AcquisitionTime	Required
(0x0008,0x0033)	ContentTime	Required
(0x0008,0x0060)	Modality	Required
(0x0008,0x0070)	Manufacturer	Required
(0x0008,0x0080)	InstitutionName	Required
(0x0008,0x0090)	ReferringPhysicianName	Required
(0x0008,0x1010)	StationName	Required
(0x0008,0x1030)	StudyDescription	Required
(0x0008,0x103e)	SeriesDescription	Required
(0x0008,0x1040)	InstitutionalDepartmentName	Required
(0x0008,0x1090)	ManufacturerModelName	Required
(0x0008,0x2111)	DerivationDescription	Required
(0x0010,0x0010)	PatientName	Required
(0x0010,0x0020)	PatientID	Required
(0x0010,0x0040)	PatientSex	Required

(0x0010,0x1010)	PatientAge	Required
(0x0018,0x0010)	ContrastBolusAgent	Required
(0x0018,0x0022)	ScanOptions	Required
(0x0018,0x0050)	SliceThickness	Required
(0x0018,0x0080)	RepetitionTime	Required
(0x0018,0x0081)	EchoTime	Required
(0x0018,0x0082)	InversionTime	Required
(0x0018,0x0088)	SpacingBetweenSlices	Required
(0x0018,0x1030)	ProtocolName	Required
(0x0018,0x1120)	GantryDetectorTilt	Required
(0x0018,0x1314)	FlipAngle	Required
(0x0020,0x000d)	StudyInstanceUID	Required
(0x0020,0x000e)	SeriesInstanceUID	Required
(0x0020,0x0010)	StudyID	Required
(0x0020,0x0011)	SeriesNumber	Required
(0x0020,0x0012)	AcquisitionNumber	Required
(0x0020,0x0013)	InstanceNumber	Required
(0x0020,0x0032)	ImagePositionPatient	Required
(0x0020,0x0037)	ImageOrientationPatient	Required
(0x0020,0x0052)	FrameOfReferenceUID	Required
(0x0020,0x0105)	NumberOfTemporalPositions	Required
(0x0028,0x0004)	PhotometricInterpretation	Required
(0x0028,0x0010)	Rows	Required
(0x0028,0x0011)	Columns	Required
(0x0028,0x0030)	PixelSpacing	Required
(0x0028,0x0100)	BitsAllocated	Required
(0x0028,0x0101)	BitsStored	Required
(0x0028,0x0102)	HighBit	Required
(0x0028,0x1050)	WindowCenter	Required
(0x0028,0x1051)	WindowWidth	Required
(0x0028,0x1052)	RescaleIntercept	Required
(0x0028,0x1053)	RescaleSlope	Required
(0x0028,0x1054)	RescaleType	Required
(0x0059,0x0012)	PrivateCreator	Required

(0x0059,0x0013)	PrivateCreator	Required
(0x0059,0x0014)	PrivateCreator	Required
(0x0061,0x1001)	Unknown Tag & Data	Required
Series: ct-perfusion		
(0x0008,0x0005)	SpecificCharacterSet	Required
(0x0008,0x0008)	ImageType	Required
(0x0008,0x0016)	SOPClassUID	Required
(0x0008,0x0018)	SOPInstanceUID	Required
(0x0008,0x0020)	StudyDate	Required
(0x0008,0x0021)	SeriesDate	Required
(0x0008,0x0022)	AcquisitionDate	Required
(0x0008,0x0023)	ContentDate	Required
(0x0008,0x002a)	AcquisitionDateTime	Required
(0x0008,0x0030)	StudyTime	Required
(0x0008,0x0031)	SeriesTime	Required
(0x0008,0x0032)	AcquisitionTime	Required
(0x0008,0x0033)	ContentTime	Required
(0x0008,0x0050)	AccessionNumber	Required
(0x0008,0x0060)	Modality	Required
(0x0008,0x0070)	Manufacturer	Required
(0x0008,0x0080)	InstitutionName	Required
(0x0008,0x0090)	ReferringPhysicianName	Required
(0x0008,0x1010)	StationName	Required
(0x0008,0x1030)	StudyDescription	Required
(0x0008,0x103e)	SeriesDescription	Required
(0x0008,0x1040)	InstitutionalDepartmentName	Required
(0x0008,0x1090)	ManufacturerModelName	Required
(0x0008,0x2111)	DerivationDescription	Required
(0x0010,0x0010)	PatientName	Required
(0x0010,0x0020)	PatientID	Required
(0x0010,0x0030)	PatientBirthDate	Required
(0x0010,0x0040)	PatientSex	Required
(0x0010,0x1010)	PatientAge	Required
(0x0018,0x0010)	ContrastBolusAgent	Required

(0x0018,0x0022)	ScanOptions	Required
(0x0018,0x0050)	SliceThickness	Required
(0x0018,0x0080)	RepetitionTime	Required
(0x0018,0x0081)	EchoTime	Required
(0x0018,0x0082)	InversionTime	Required
(0x0018,0x0088)	SpacingBetweenSlices	Required
(0x0018,0x1030)	ProtocolName	Required
(0x0018,0x1120)	GantryDetectorTilt	Required
(0x0018,0x1314)	FlipAngle	Required
(0x0020,0x000d)	StudyInstanceUID	Required
(0x0020,0x000e)	SeriesInstanceUID	Required
(0x0020,0x0010)	StudyID	Required
(0x0020,0x0011)	SeriesNumber	Required
(0x0020,0x0012)	AcquisitionNumber	Required
(0x0020,0x0013)	InstanceNumber	Required
(0x0020,0x0032)	ImagePositionPatient	Required
(0x0020,0x0037)	ImageOrientationPatient	Required
(0x0020,0x0052)	FrameOfReferenceUID	Required
(0x0020,0x0105)	NumberOfTemporalPositions	Required
(0x0020,0x1002)	ImagesInAcquisition	Required
(0x0028,0x0004)	PhotometricInterpretation	Required
(0x0028,0x0010)	Rows	Required
(0x0028,0x0011)	Columns	Required
(0x0028,0x0030)	PixelSpacing	Required
(0x0028,0x0100)	BitsAllocated	Required
(0x0028,0x0101)	BitsStored	Required
(0x0028,0x0102)	HighBit	Required
(0x0028,0x1050)	WindowCenter	Required
(0x0028,0x1051)	WindowWidth	Required
(0x0028,0x1052)	RescaleIntercept	Required
(0x0028,0x1053)	RescaleSlope	Required
(0x0028,0x1054)	RescaleType	Required
(0x0059,0x0012)	PrivateCreator	Required
(0x0059,0x0013)	PrivateCreator	Required

(0x0059,0x0014)	PrivateCreator	Required
(0x0061,0x1001)	Unknown Tag & Data	Required
Series: mr-dwi		
(0x0008,0x0005)	SpecificCharacterSet	Required
(0x0008,0x0008)	ImageType	Required
(0x0008,0x0016)	SOPClassUID	Required
(0x0008,0x0018)	SOPInstanceUID	Required
(0x0008,0x0020)	StudyDate	Required
(0x0008,0x0021)	SeriesDate	Required
(0x0008,0x0022)	AcquisitionDate	Required
(0x0008,0x0023)	ContentDate	Required
(0x0008,0x002a)	AcquisitionDateTime	Required
(0x0008,0x0030)	StudyTime	Required
(0x0008,0x0031)	SeriesTime	Required
(0x0008,0x0032)	AcquisitionTime	Required
(0x0008,0x0033)	ContentTime	Required
(0x0008,0x0060)	Modality	Required
(0x0008,0x0070)	Manufacturer	Required
(0x0008,0x0080)	InstitutionName	Required
(0x0008,0x0090)	ReferringPhysicianName	Required
(0x0008,0x1010)	StationName	Required
(0x0008,0x1030)	StudyDescription	Required
(0x0008,0x103e)	SeriesDescription	Required
(0x0008,0x1040)	InstitutionalDepartmentName	Required
(0x0008,0x1090)	ManufacturerModelName	Required
(0x0008,0x2111)	DerivationDescription	Required
(0x0010,0x0010)	PatientName	Required
(0x0010,0x0020)	PatientID	Required
(0x0010,0x0040)	PatientSex	Required
(0x0010,0x1010)	PatientAge	Required
(0x0018,0x0010)	ContrastBolusAgent	Required
(0x0018,0x0022)	ScanOptions	Required
(0x0018,0x0050)	SliceThickness	Required
(0x0018,0x0080)	RepetitionTime	Required

(0x0018,0x0081)	EchoTime	Required
(0x0018,0x0082)	InversionTime	Required
(0x0018,0x0088)	SpacingBetweenSlices	Required
(0x0018,0x1030)	ProtocolName	Required
(0x0018,0x1314)	FlipAngle	Required
(0x0018,0x9087)	DiffusionBValue	Required
(0x0018,0x9089)	DiffusionGradientOrientation	Required
(0x0020,0x000d)	StudyInstanceUID	Required
(0x0020,0x000e)	SeriesInstanceUID	Required
(0x0020,0x0010)	StudyID	Required
(0x0020,0x0011)	SeriesNumber	Required
(0x0020,0x0012)	AcquisitionNumber	Required
(0x0020,0x0013)	InstanceNumber	Required
(0x0020,0x0032)	ImagePositionPatient	Required
(0x0020,0x0037)	ImageOrientationPatient	Required
(0x0020,0x0052)	FrameOfReferenceUID	Required
(0x0020,0x0105)	NumberOfTemporalPositions	Required
(0x0028,0x0004)	PhotometricInterpretation	Required
(0x0028,0x0010)	Rows	Required
(0x0028,0x0011)	Columns	Required
(0x0028,0x0030)	PixelSpacing	Required
(0x0028,0x0100)	BitsAllocated	Required
(0x0028,0x0101)	BitsStored	Required
(0x0028,0x0102)	HighBit	Required
(0x0028,0x1050)	WindowCenter	Required
(0x0028,0x1051)	WindowWidth	Required
(0x0028,0x1052)	RescaleIntercept	Required
(0x0028,0x1053)	RescaleSlope	Required
(0x0028,0x1054)	RescaleType	Required
(0x0059,0x0012)	PrivateCreator	Required
(0x0059,0x0013)	PrivateCreator	Required
(0x0059,0x0014)	PrivateCreator	Required
(0x0061,0x1001)	Unknown Tag & Data	Required
(0x2005,0x10a8)	Unknown Tag & Data	Required

Series: mr-pwi-dce		
(0x0008,0x0005)	SpecificCharacterSet	Required
(0x0008,0x0008)	ImageType	Required
(0x0008,0x0016)	SOPClassUID	Required
(0x0008,0x0018)	SOPInstanceUID	Required
(0x0008,0x0020)	StudyDate	Required
(0x0008,0x0021)	SeriesDate	Required
(0x0008,0x0022)	AcquisitionDate	Required
(0x0008,0x0023)	ContentDate	Required
(0x0008,0x002a)	AcquisitionDateTime	Required
(0x0008,0x0030)	StudyTime	Required
(0x0008,0x0031)	SeriesTime	Required
(0x0008,0x0032)	AcquisitionTime	Required
(0x0008,0x0033)	ContentTime	Required
(0x0008,0x0060)	Modality	Required
(0x0008,0x0070)	Manufacturer	Required
(0x0008,0x0080)	InstitutionName	Required
(0x0008,0x0090)	ReferringPhysicianName	Required
(0x0008,0x1010)	StationName	Required
(0x0008,0x1030)	StudyDescription	Required
(0x0008,0x103e)	SeriesDescription	Required
(0x0008,0x1040)	InstitutionalDepartmentName	Required
(0x0008,0x1090)	ManufacturerModelName	Required
(0x0008,0x2111)	DerivationDescription	Required
(0x0010,0x0010)	PatientName	Required
(0x0010,0x0020)	PatientID	Required
(0x0010,0x0040)	PatientSex	Required
(0x0010,0x1010)	PatientAge	Required
(0x0018,0x0010)	ContrastBolusAgent	Required
(0x0018,0x0022)	ScanOptions	Required
(0x0018,0x0050)	SliceThickness	Required
(0x0018,0x0080)	RepetitionTime	Required
(0x0018,0x0081)	EchoTime	Required
(0x0018,0x0082)	InversionTime	Required

(0x0018,0x0088)	SpacingBetweenSlices	Required
(0x0018,0x1030)	ProtocolName	Required
(0x0018,0x1314)	FlipAngle	Required
(0x0018,0x9087)	DiffusionBValue	Required
(0x0018,0x9089)	DiffusionGradientOrientation	Required
(0x0020,0x000d)	StudyInstanceUID	Required
(0x0020,0x000e)	SeriesInstanceUID	Required
(0x0020,0x0010)	StudyID	Required
(0x0020,0x0011)	SeriesNumber	Required
(0x0020,0x0012)	AcquisitionNumber	Required
(0x0020,0x0013)	InstanceNumber	Required
(0x0020,0x0032)	ImagePositionPatient	Required
(0x0020,0x0037)	ImageOrientationPatient	Required
(0x0020,0x0052)	FrameOfReferenceUID	Required
(0x0020,0x0105)	NumberOfTemporalPositions	Required
(0x0028,0x0004)	PhotometricInterpretation	Required
(0x0028,0x0010)	Rows	Required
(0x0028,0x0011)	Columns	Required
(0x0028,0x0030)	PixelSpacing	Required
(0x0028,0x0100)	BitsAllocated	Required
(0x0028,0x0101)	BitsStored	Required
(0x0028,0x0102)	HighBit	Required
(0x0028,0x1050)	WindowCenter	Required
(0x0028,0x1051)	WindowWidth	Required
(0x0028,0x1052)	RescaleIntercept	Required
(0x0028,0x1053)	RescaleSlope	Required
(0x0028,0x1054)	RescaleType	Required
(0x0059,0x0012)	PrivateCreator	Required
(0x0059,0x0013)	PrivateCreator	Required
(0x0059,0x0014)	PrivateCreator	Required
(0x0061,0x1001)	Unknown Tag & Data	Required
(0x2005,0x10a8)	Unknown Tag & Data	Required
Series: mr-pwi-dsc		
(0x0008,0x0005)	SpecificCharacterSet	Required

(0x0008,0x0008)	ImageType	Required
(0x0008,0x0016)	SOPClassUID	Required
(0x0008,0x0018)	SOPInstanceUID	Required
(0x0008,0x0020)	StudyDate	Required
(0x0008,0x0021)	SeriesDate	Required
(0x0008,0x0022)	AcquisitionDate	Required
(0x0008,0x0023)	ContentDate	Required
(0x0008,0x002a)	AcquisitionDateTime	Required
(0x0008,0x0030)	StudyTime	Required
(0x0008,0x0031)	SeriesTime	Required
(0x0008,0x0032)	AcquisitionTime	Required
(0x0008,0x0033)	ContentTime	Required
(0x0008,0x0060)	Modality	Required
(0x0008,0x0070)	Manufacturer	Required
(0x0008,0x0080)	InstitutionName	Required
(0x0008,0x0090)	ReferringPhysicianName	Required
(0x0008,0x1010)	StationName	Required
(0x0008,0x1030)	StudyDescription	Required
(0x0008,0x103e)	SeriesDescription	Required
(0x0008,0x1040)	InstitutionalDepartmentName	Required
(0x0008,0x1090)	ManufacturerModelName	Required
(0x0008,0x2111)	DerivationDescription	Required
(0x0010,0x0010)	PatientName	Required
(0x0010,0x0020)	PatientID	Required
(0x0010,0x0040)	PatientSex	Required
(0x0010,0x1010)	PatientAge	Required
(0x0018,0x0010)	ContrastBolusAgent	Required
(0x0018,0x0022)	ScanOptions	Required
(0x0018,0x0050)	SliceThickness	Required
(0x0018,0x0080)	RepetitionTime	Required
(0x0018,0x0081)	EchoTime	Required
(0x0018,0x0082)	InversionTime	Required
(0x0018,0x0088)	SpacingBetweenSlices	Required
(0x0018,0x1030)	ProtocolName	Required

(0x0018,0x1314)	FlipAngle	Required
(0x0018,0x9087)	DiffusionBValue	Required
(0x0018,0x9089)	DiffusionGradientOrientation	Required
(0x0020,0x000d)	StudyInstanceUID	Required
(0x0020,0x000e)	SeriesInstanceUID	Required
(0x0020,0x0010)	StudyID	Required
(0x0020,0x0011)	SeriesNumber	Required
(0x0020,0x0012)	AcquisitionNumber	Required
(0x0020,0x0013)	InstanceNumber	Required
(0x0020,0x0032)	ImagePositionPatient	Required
(0x0020,0x0037)	ImageOrientationPatient	Required
(0x0020,0x0052)	FrameOfReferenceUID	Required
(0x0020,0x0105)	NumberOfTemporalPositions	Required
(0x0028,0x0004)	PhotometricInterpretation	Required
(0x0028,0x0010)	Rows	Required
(0x0028,0x0011)	Columns	Required
(0x0028,0x0030)	PixelSpacing	Required
(0x0028,0x0100)	BitsAllocated	Required
(0x0028,0x0101)	BitsStored	Required
(0x0028,0x0102)	HighBit	Required
(0x0028,0x1050)	WindowCenter	Required
(0x0028,0x1051)	WindowWidth	Required
(0x0028,0x1052)	RescaleIntercept	Required
(0x0028,0x1053)	RescaleSlope	Required
(0x0028,0x1054)	RescaleType	Required
(0x0059,0x0012)	PrivateCreator	Required
(0x0059,0x0013)	PrivateCreator	Required
(0x0059,0x0014)	PrivateCreator	Required
(0x0061,0x1001)	Unknown Tag & Data	Required
(0x2005,0x10a8)	Unknown Tag & Data	Required
Series: mr-t1		
(0x0008,0x0005)	SpecificCharacterSet	Required
(0x0008,0x0008)	ImageType	Required
(0x0008,0x0016)	SOPClassUID	Required

(0x0008,0x0018)	SOPInstanceUID	Required
(0x0008,0x0020)	StudyDate	Required
(0x0008,0x0021)	SeriesDate	Required
(0x0008,0x0022)	AcquisitionDate	Required
(0x0008,0x0023)	ContentDate	Required
(0x0008,0x002a)	AcquisitionDateTime	Required
(0x0008,0x0030)	StudyTime	Required
(0x0008,0x0031)	SeriesTime	Required
(0x0008,0x0032)	AcquisitionTime	Required
(0x0008,0x0033)	ContentTime	Required
(0x0008,0x0060)	Modality	Required
(0x0008,0x0070)	Manufacturer	Required
(0x0008,0x0080)	InstitutionName	Required
(0x0008,0x0090)	ReferringPhysicianName	Required
(0x0008,0x1010)	StationName	Required
(0x0008,0x1030)	StudyDescription	Required
(0x0008,0x103e)	SeriesDescription	Required
(0x0008,0x1040)	InstitutionalDepartmentName	Required
(0x0008,0x1090)	ManufacturerModelName	Required
(0x0008,0x2111)	DerivationDescription	Required
(0x0010,0x0010)	PatientName	Required
(0x0010,0x0020)	PatientID	Required
(0x0010,0x0040)	PatientSex	Required
(0x0010,0x1010)	PatientAge	Required
(0x0018,0x0010)	ContrastBolusAgent	Required
(0x0018,0x0022)	ScanOptions	Required
(0x0018,0x0050)	SliceThickness	Required
(0x0018,0x0080)	RepetitionTime	Required
(0x0018,0x0081)	EchoTime	Required
(0x0018,0x0082)	InversionTime	Required
(0x0018,0x0088)	SpacingBetweenSlices	Required
(0x0018,0x1030)	ProtocolName	Required
(0x0018,0x1314)	FlipAngle	Required
(0x0018,0x9087)	DiffusionBValue	Required

(0x0018,0x9089)	DiffusionGradientOrientation	Required
(0x0020,0x000d)	StudyInstanceUID	Required
(0x0020,0x000e)	SeriesInstanceUID	Required
(0x0020,0x0010)	StudyID	Required
(0x0020,0x0011)	SeriesNumber	Required
(0x0020,0x0012)	AcquisitionNumber	Required
(0x0020,0x0013)	InstanceNumber	Required
(0x0020,0x0032)	ImagePositionPatient	Required
(0x0020,0x0037)	ImageOrientationPatient	Required
(0x0020,0x0052)	FrameOfReferenceUID	Required
(0x0020,0x0105)	NumberOfTemporalPositions	Required
(0x0028,0x0004)	PhotometricInterpretation	Required
(0x0028,0x0010)	Rows	Required
(0x0028,0x0011)	Columns	Required
(0x0028,0x0030)	PixelSpacing	Required
(0x0028,0x0100)	BitsAllocated	Required
(0x0028,0x0101)	BitsStored	Required
(0x0028,0x0102)	HighBit	Required
(0x0028,0x1050)	WindowCenter	Required
(0x0028,0x1051)	WindowWidth	Required
(0x0028,0x1052)	RescaleIntercept	Required
(0x0028,0x1053)	RescaleSlope	Required
(0x0028,0x1054)	RescaleType	Required
(0x0059,0x0012)	PrivateCreator	Required
(0x0059,0x0013)	PrivateCreator	Required
(0x0059,0x0014)	PrivateCreator	Required
(0x0061,0x1001)	Unknown Tag & Data	Required
(0x2005,0x10a8)	Unknown Tag & Data	Required
Series: mr-t1-contrast		
(0x0008,0x0005)	SpecificCharacterSet	Required
(0x0008,0x0008)	ImageType	Required
(0x0008,0x0016)	SOPClassUID	Required
(0x0008,0x0018)	SOPInstanceUID	Required
(0x0008,0x0020)	StudyDate	Required

(0x0008,0x0021)	SeriesDate	Required
(0x0008,0x0022)	AcquisitionDate	Required
(0x0008,0x0023)	ContentDate	Required
(0x0008,0x002a)	AcquisitionDateTime	Required
(0x0008,0x0030)	StudyTime	Required
(0x0008,0x0031)	SeriesTime	Required
(0x0008,0x0032)	AcquisitionTime	Required
(0x0008,0x0033)	ContentTime	Required
(0x0008,0x0060)	Modality	Required
(0x0008,0x0070)	Manufacturer	Required
(0x0008,0x0080)	InstitutionName	Required
(0x0008,0x0090)	ReferringPhysicianName	Required
(0x0008,0x1010)	StationName	Required
(0x0008,0x1030)	StudyDescription	Required
(0x0008,0x103e)	SeriesDescription	Required
(0x0008,0x1040)	InstitutionalDepartmentName	Required
(0x0008,0x1090)	ManufacturerModelName	Required
(0x0008,0x2111)	DerivationDescription	Required
(0x0010,0x0010)	PatientName	Required
(0x0010,0x0020)	PatientID	Required
(0x0010,0x0040)	PatientSex	Required
(0x0010,0x1010)	PatientAge	Required
(0x0018,0x0010)	ContrastBolusAgent	Required
(0x0018,0x0022)	ScanOptions	Required
(0x0018,0x0050)	SliceThickness	Required
(0x0018,0x0080)	RepetitionTime	Required
(0x0018,0x0081)	EchoTime	Required
(0x0018,0x0082)	InversionTime	Required
(0x0018,0x0088)	SpacingBetweenSlices	Required
(0x0018,0x1030)	ProtocolName	Required
(0x0018,0x1314)	FlipAngle	Required
(0x0018,0x9087)	DiffusionBValue	Required
(0x0018,0x9089)	DiffusionGradientOrientation	Required
(0x0020,0x000d)	StudyInstanceUID	Required

(0x0020,0x000e)	SeriesInstanceUID	Required
(0x0020,0x0010)	StudyID	Required
(0x0020,0x0011)	SeriesNumber	Required
(0x0020,0x0012)	AcquisitionNumber	Required
(0x0020,0x0013)	InstanceNumber	Required
(0x0020,0x0032)	ImagePositionPatient	Required
(0x0020,0x0037)	ImageOrientationPatient	Required
(0x0020,0x0052)	FrameOfReferenceUID	Required
(0x0020,0x0105)	NumberOfTemporalPositions	Required
(0x0028,0x0004)	PhotometricInterpretation	Required
(0x0028,0x0010)	Rows	Required
(0x0028,0x0011)	Columns	Required
(0x0028,0x0030)	PixelSpacing	Required
(0x0028,0x0100)	BitsAllocated	Required
(0x0028,0x0101)	BitsStored	Required
(0x0028,0x0102)	HighBit	Required
(0x0028,0x1050)	WindowCenter	Required
(0x0028,0x1051)	WindowWidth	Required
(0x0028,0x1052)	RescaleIntercept	Required
(0x0028,0x1053)	RescaleSlope	Required
(0x0028,0x1054)	RescaleType	Required
(0x0059,0x0012)	PrivateCreator	Required
(0x0059,0x0013)	PrivateCreator	Required
(0x0059,0x0014)	PrivateCreator	Required
(0x0061,0x1001)	Unknown Tag & Data	Required
(0x2005,0x10a8)	Unknown Tag & Data	Required
Series: mr-t2flair		
(0x0008,0x0005)	SpecificCharacterSet	Required
(0x0008,0x0008)	ImageType	Required
(0x0008,0x0016)	SOPClassUID	Required
(0x0008,0x0018)	SOPInstanceUID	Required
(0x0008,0x0020)	StudyDate	Required
(0x0008,0x0021)	SeriesDate	Required
(0x0008,0x0022)	AcquisitionDate	Required

(0x0008,0x0023)	ContentDate	Required
(0x0008,0x002a)	AcquisitionDateTime	Required
(0x0008,0x0030)	StudyTime	Required
(0x0008,0x0031)	SeriesTime	Required
(0x0008,0x0032)	AcquisitionTime	Required
(0x0008,0x0033)	ContentTime	Required
(0x0008,0x0060)	Modality	Required
(0x0008,0x0070)	Manufacturer	Required
(0x0008,0x0080)	InstitutionName	Required
(0x0008,0x0090)	ReferringPhysicianName	Required
(0x0008,0x1010)	StationName	Required
(0x0008,0x1030)	StudyDescription	Required
(0x0008,0x103e)	SeriesDescription	Required
(0x0008,0x1040)	InstitutionalDepartmentName	Required
(0x0008,0x1090)	ManufacturerModelName	Required
(0x0008,0x2111)	DerivationDescription	Required
(0x0010,0x0010)	PatientName	Required
(0x0010,0x0020)	PatientID	Required
(0x0010,0x0040)	PatientSex	Required
(0x0010,0x1010)	PatientAge	Required
(0x0018,0x0010)	ContrastBolusAgent	Required
(0x0018,0x0022)	ScanOptions	Required
(0x0018,0x0050)	SliceThickness	Required
(0x0018,0x0080)	RepetitionTime	Required
(0x0018,0x0081)	EchoTime	Required
(0x0018,0x0082)	InversionTime	Required
(0x0018,0x0088)	SpacingBetweenSlices	Required
(0x0018,0x1030)	ProtocolName	Required
(0x0018,0x1314)	FlipAngle	Required
(0x0018,0x9087)	DiffusionBValue	Required
(0x0018,0x9089)	DiffusionGradientOrientation	Required
(0x0020,0x000d)	StudyInstanceUID	Required
(0x0020,0x000e)	SeriesInstanceUID	Required
(0x0020,0x0010)	StudyID	Required

(0x0020,0x0011)	SeriesNumber	Required
(0x0020,0x0012)	AcquisitionNumber	Required
(0x0020,0x0013)	InstanceNumber	Required
(0x0020,0x0032)	ImagePositionPatient	Required
(0x0020,0x0037)	ImageOrientationPatient	Required
(0x0020,0x0052)	FrameOfReferenceUID	Required
(0x0020,0x0105)	NumberOfTemporalPositions	Required
(0x0028,0x0004)	PhotometricInterpretation	Required
(0x0028,0x0010)	Rows	Required
(0x0028,0x0011)	Columns	Required
(0x0028,0x0030)	PixelSpacing	Required
(0x0028,0x0100)	BitsAllocated	Required
(0x0028,0x0101)	BitsStored	Required
(0x0028,0x0102)	HighBit	Required
(0x0028,0x1050)	WindowCenter	Required
(0x0028,0x1051)	WindowWidth	Required
(0x0028,0x1052)	RescaleIntercept	Required
(0x0028,0x1053)	RescaleSlope	Required
(0x0028,0x1054)	RescaleType	Required
(0x0059,0x0012)	PrivateCreator	Required
(0x0059,0x0013)	PrivateCreator	Required
(0x0059,0x0014)	PrivateCreator	Required
(0x0061,0x1001)	Unknown Tag & Data	Required
(0x2005,0x10a8)	Unknown Tag & Data	Required

Table 3: Ingress single frame DICOM headers

DICOM tag	DICOM tag name	State
(0x0008,0x0005)	SpecificCharacterSet	Required
(0x0008,0x0008)	ImageType	Required
(0x0008,0x0016)	SOPClassUID	Required
(0x0008,0x0018)	SOPInstanceUID	Required
(0x0008,0x0020)	StudyDate	Required
(0x0008,0x0021)	SeriesDate	Required

(0x0008,0x0022)	AcquisitionDate	Required
(0x0008,0x0023)	ContentDate	Required
(0x0008,0x002a)	AcquisitionDateTime	Required
(0x0008,0x0030)	StudyTime	Required
(0x0008,0x0031)	SeriesTime	Required
(0x0008,0x0032)	AcquisitionTime	Required
(0x0008,0x0033)	ContentTime	Required
(0x0008,0x0050)	AccessionNumber	Required
(0x0008,0x0060)	Modality	Required
(0x0008,0x0070)	Manufacturer	Required
(0x0008,0x0080)	InstitutionName	Required
(0x0008,0x0090)	ReferringPhysicianName	Required
(0x0008,0x1010)	StationName	Required
(0x0008,0x1030)	StudyDescription	Required
(0x0008,0x103e)	SeriesDescription	Required
(0x0008,0x1040)	InstitutionalDepartmentName	Required
(0x0008,0x1090)	ManufacturerModelName	Required
(0x0008,0x2111)	DerivationDescription	Required
(0x0010,0x0010)	PatientName	Required
(0x0010,0x0020)	PatientID	Required
(0x0010,0x0030)	PatientBirthDate	Required
(0x0010,0x0040)	PatientSex	Required
(0x0010,0x1010)	PatientAge	Required
(0x0018,0x0010)	ContrastBolusAgent	Required
(0x0018,0x0022)	ScanOptions	Required
(0x0018,0x0050)	SliceThickness	Required
(0x0018,0x0080)	RepetitionTime	Required
(0x0018,0x0081)	EchoTime	Required
(0x0018,0x0082)	InversionTime	Required
(0x0018,0x0088)	SpacingBetweenSlices	Required
(0x0018,0x1030)	ProtocolName	Required
(0x0018,0x1120)	GantryDetectorTilt	Required
(0x0018,0x1314)	FlipAngle	Required
(0x0018,0x9087)	DiffusionBValue	Required

(0x0018,0x9089)	DiffusionGradientOrientation	Required
(0x0020,0x000d)	StudyInstanceUID	Required
(0x0020,0x000e)	SeriesInstanceUID	Required
(0x0020,0x0010)	StudyID	Required
(0x0020,0x0011)	SeriesNumber	Required
(0x0020,0x0012)	AcquisitionNumber	Required
(0x0020,0x0013)	InstanceNumber	Required
(0x0020,0x0032)	ImagePositionPatient	Required
(0x0020,0x0037)	ImageOrientationPatient	Required
(0x0020,0x0052)	FrameOfReferenceUID	Required
(0x0020,0x0105)	NumberOfTemporalPositions	Required
(0x0020,0x1002)	ImagesInAcquisition	Required
(0x0028,0x0004)	PhotometricInterpretation	Required
(0x0028,0x0010)	Rows	Required
(0x0028,0x0011)	Columns	Required
(0x0028,0x0030)	PixelSpacing	Required
(0x0028,0x0100)	BitsAllocated	Required
(0x0028,0x0101)	BitsStored	Required
(0x0028,0x0102)	HighBit	Required
(0x0028,0x1050)	WindowCenter	Required
(0x0028,0x1051)	WindowWidth	Required
(0x0028,0x1052)	RescaleIntercept	Required
(0x0028,0x1053)	RescaleSlope	Required
(0x0028,0x1054)	RescaleType	Required
(0x0059,0x0012)	PrivateCreator	Required
(0x0059,0x0013)	PrivateCreator	Required
(0x0059,0x0014)	PrivateCreator	Required
(0x0061,0x1001)	Unknown Tag & Data	Required
(0x2005,0x10a8)	Unknown Tag & Data	Required

Table 4: Unique ingress single frame DICOM headers

Multiframe DICOM tag path	Single frame DICOM tag
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SharedFunctionalGroupsSequence • (0x5200,0x9229).(0x0018,0x9112).(0x0018,0x0080)	RepetitionTime • (0x0018,0x0080)
PerFrameFunctionalGroupsSequence • (0x5200,0x9230).(0x2005,0x140f).(0x0018,0x1314)	FlipAngle • (0x0018,0x1314)
SharedFunctionalGroupsSequence • (0x5200,0x9229).(0x0018,0x9115).(0x0018,0x9009)	InversionRecovery • (0x0018,0x9009)
PerFrameFunctionalGroupsSequence • (0x5200,0x9230).(0x0028,0x9132).(0x0028,0x1050)	WindowCenter • (0x0028,0x1050)
PerFrameFunctionalGroupsSequence • (0x5200,0x9230).(0x0028,0x9132).(0x0028,0x1051)	WindowWidth • (0x0028,0x1051)
SharedFunctionalGroupsSequence • (0x5200,0x9229).(0x0040,0x9096).(0x0040,0x9211)	RealWorldValueLastValueMapped • (0x0040,0x9211)
SharedFunctionalGroupsSequence • (0x5200,0x9229).(0x0040,0x9096).(0x0040,0x9216)	RealWorldValueFirstValueMapped • (0x0040,0x9216)
SharedFunctionalGroupsSequence • (0x5200,0x9229).(0x0040,0x9096).(0x0040,0x9224)	RealWorldValueIntercept • (0x0040,0x9224)
SharedFunctionalGroupsSequence • (0x5200,0x9229).(0x0040,0x9096).(0x0040,0x9225)	RealWorldValueSlope • (0x0040,0x9225)
PerFrameFunctionalGroupsSequence • (0x5200,0x9230).(0x2005,0x140f).(0x0018,0x0081)	EchoTime • (0x0018,0x0081)
PerFrameFunctionalGroupsSequence • (0x5200,0x9230).(0x2005,0x140f).(0x2001,0x1003)	DiffusionBValue • (0x0018,0x9087)
PerFrameFunctionalGroupsSequence • (0x5200,0x9230).(0x0020,0x9111).(0x0018,0x9074)	AcquisitionDateTime • (0x0008,0x002a)
PerFrameFunctionalGroupsSequence • (0x5200,0x9230).(0x0020,0x9111).(0x0020,0x9128)	TemporalPositionIndex • (0x0020,0x9128)
PerFrameFunctionalGroupsSequence • (0x5200,0x9230).(0x0020,0x9113).(0x0020,0x0032)	ImagePositionPatient • (0x0020,0x0032)

PerFrameFunctionalGroupsSequence • (0x5200,0x9230).(0x0020,0x9116).(0x0020,0x0037)	ImageOrientationPatient • (0x0020,0x0037)
PerFrameFunctionalGroupsSequence • (0x5200,0x9230).(0x2005,0x140f).(0x0028,0x1052)	RescaleIntercept • (0x0028,0x1052)
PerFrameFunctionalGroupsSequence • (0x5200,0x9230).(0x2005,0x140f).(0x0028,0x1053)	RescaleSlope • (0x0028,0x1053)
PerFrameFunctionalGroupsSequence • (0x5200,0x9230).(0x2005,0x140f).(0x0028,0x1054)	RescaleType • (0x0028,0x1054)
PerFrameFunctionalGroupsSequence • (0x5200,0x9230).(0x0021,0x11fe).(0x0021,0x1175)	ImageType • (0x0008,0x0008)
PerFrameFunctionalGroupsSequence • (0x5200,0x9230).(0x2005,0x140f).(0x0018,0x0050)	SliceThickness • (0x0018,0x0050)
PerFrameFunctionalGroupsSequence • (0x5200,0x9230).(0x2005,0x140f).(0x0008,0x0023)	AcquisitionDate • (0x0008,0x0022)
PerFrameFunctionalGroupsSequence • (0x5200,0x9230).(0x2005,0x140f).(0x0008,0x0033)	AcquisitionTime • (0x0008,0x0032)
PerFrameFunctionalGroupsSequence • (0x5200,0x9230).(0x2005,0x140f).(0x0018,0x0088)	SpacingBetweenSlices • (0x0018,0x0088)
PerFrameFunctionalGroupsSequence • (0x5200,0x9230).(0x2005,0x140f).(0x0020,0x0013)	InstanceNumber • (0x0020,0x0013)
PerFrameFunctionalGroupsSequence • (0x5200,0x9230).(0x2005,0x140f).(0x0020,0x0100)	TemporalPositionIdentifier • (0x0020,0x0100)
PerFrameFunctionalGroupsSequence • (0x5200,0x9230).(0x2005,0x140f).(0x0020,0x0105)	NumberOfTemporalPositions • (0x0020,0x0105)
PerFrameFunctionalGroupsSequence • (0x5200,0x9230).(0x2005,0x140f).(0x0028,0x0030)	PixelSpacing • (0x0028,0x0030)
PerFrameFunctionalGroupsSequence • (0x5200,0x9230).(0x2005,0x140f).(0x2005,0x10a8)	InversionTime • (0x0018,0x0082)

PerFrameFunctionalGroupsSequence (0x5200,0x9230).(0x0018,0x9117).(0x0018,0x9076).(0x0018,0x9089)	DiffusionGradientOrientation (0x0018,0x9089)
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Table 5: Ingress multi frame DICOM headers

10 Outgoing DICOM fields

During operation CMN writes a number of DICOM header fields. The following tables describe all the DICOM tags that are saved during CMN export grouped by pipeline.

DICOM tag	DICOM tag name	VR
Series: aif-location		
(0x0008,0x0005)	SpecificCharacterSet	CS
(0x0008,0x0008)	ImageType	CS
(0x0008,0x0016)	SOPClassUID	UI
(0x0008,0x0018)	SOPInstanceUID	UI
(0x0008,0x0020)	StudyDate	DA
(0x0008,0x0021)	SeriesDate	DA
(0x0008,0x0022)	AcquisitionDate	DA
(0x0008,0x002a)	AcquisitionDateTime	DT
(0x0008,0x0030)	StudyTime	TM
(0x0008,0x0031)	SeriesTime	TM
(0x0008,0x0032)	AcquisitionTime	TM
(0x0008,0x0050)	AccessionNumber	SH
(0x0008,0x0060)	Modality	CS
(0x0008,0x0064)	ConversionType	CS
(0x0008,0x0070)	Manufacturer	LO
(0x0008,0x0080)	InstitutionName	LO
(0x0008,0x0090)	ReferringPhysicianName	PN
(0x0008,0x0201)	TimezoneOffsetFromUTC	SH
(0x0008,0x1010)	StationName	SH
(0x0008,0x1030)	StudyDescription	LO
(0x0008,0x103e)	SeriesDescription	LO
(0x0008,0x1040)	InstitutionalDepartmentName	LO
(0x0008,0x1090)	ManufacturerModelName	LO

(0x0008,0x2111)	DerivationDescription	ST
(0x0010,0x0010)	PatientName	PN
(0x0010,0x0020)	PatientID	LO
(0x0010,0x0030)	PatientBirthDate	DA
(0x0010,0x0040)	PatientSex	CS
(0x0010,0x1010)	PatientAge	AS
(0x0018,0x0010)	ContrastBolusAgent	LO
(0x0018,0x0050)	SliceThickness	DS
(0x0018,0x0080)	RepetitionTime	DS
(0x0018,0x0081)	EchoTime	DS
(0x0018,0x0082)	InversionTime	DS
(0x0018,0x0088)	SpacingBetweenSlices	DS
(0x0018,0x1009)	UniqueDeviceIdentifier	UT
(0x0018,0x100a)	UDISequence	SQ
(0x0018,0x1030)	ProtocolName	LO
(0x0018,0x1314)	FlipAngle	DS
(0x0018,0x2010)	NominalScannedPixelSpacing	DS
(0x0020,0x000d)	StudyInstanceUID	UI
(0x0020,0x000e)	SeriesInstanceUID	UI
(0x0020,0x0010)	StudyID	SH
(0x0020,0x0011)	SeriesNumber	IS
(0x0020,0x0013)	InstanceNumber	IS
(0x0020,0x0020)	PatientOrientation	CS
(0x0020,0x0032)	ImagePositionPatient	DS
(0x0020,0x0037)	ImageOrientationPatient	DS
(0x0020,0x0052)	FrameOfReferenceUID	UI
(0x0020,0x0105)	NumberOfTemporalPositions	IS
(0x0020,0x1002)	ImagesInAcquisition	IS
(0x0020,0x1041)	SliceLocation	DS
(0x0028,0x0002)	SamplesPerPixel	US
(0x0028,0x0004)	PhotometricInterpretation	CS
(0x0028,0x0006)	PlanarConfiguration	US
(0x0028,0x0010)	Rows	US
(0x0028,0x0011)	Columns	US

(0x0028,0x0030)	PixelSpacing	DS
(0x0028,0x0100)	BitsAllocated	US
(0x0028,0x0101)	BitsStored	US
(0x0028,0x0102)	HighBit	US
(0x0028,0x0103)	PixelRepresentation	US
(0x0028,0x1050)	WindowCenter	DS
(0x0028,0x1051)	WindowWidth	DS
(0x0028,0x1054)	RescaleType	LO
(0x0061,0x0010)	PrivateCreator	LO
(0x0061,0x1001)	CMN JSON Structure	OB
(0x7fe0,0x0010)	PixelData	OB
Series: ct-angiography		
(0x0008,0x0005)	SpecificCharacterSet	CS
(0x0008,0x0008)	ImageType	CS
(0x0008,0x0016)	SOPClassUID	UI
(0x0008,0x0018)	SOPInstanceUID	UI
(0x0008,0x0020)	StudyDate	DA
(0x0008,0x0021)	SeriesDate	DA
(0x0008,0x0022)	AcquisitionDate	DA
(0x0008,0x002a)	AcquisitionDateTime	DT
(0x0008,0x0030)	StudyTime	TM
(0x0008,0x0031)	SeriesTime	TM
(0x0008,0x0032)	AcquisitionTime	TM
(0x0008,0x0033)	ContentTime	TM
(0x0008,0x0050)	AccessionNumber	SH
(0x0008,0x0060)	Modality	CS
(0x0008,0x0070)	Manufacturer	LO
(0x0008,0x0080)	InstitutionName	LO
(0x0008,0x0090)	ReferringPhysicianName	PN
(0x0008,0x0201)	TimezoneOffsetFromUTC	SH
(0x0008,0x1030)	StudyDescription	LO
(0x0008,0x103e)	SeriesDescription	LO
(0x0008,0x1090)	ManufacturerModelName	LO
(0x0008,0x2111)	DerivationDescription	ST

(0x0010,0x0010)	PatientName	PN
(0x0010,0x0020)	PatientID	LO
(0x0010,0x0030)	PatientBirthDate	DA
(0x0010,0x0040)	PatientSex	CS
(0x0010,0x1010)	PatientAge	AS
(0x0018,0x0010)	ContrastBolusAgent	LO
(0x0018,0x0050)	SliceThickness	DS
(0x0018,0x0088)	SpacingBetweenSlices	DS
(0x0018,0x1009)	UniqueDeviceIdentifier	UT
(0x0018,0x100a)	UDISequence	SQ
(0x0018,0x1030)	ProtocolName	LO
(0x0020,0x000d)	StudyInstanceUID	UI
(0x0020,0x000e)	SeriesInstanceUID	UI
(0x0020,0x0010)	StudyID	SH
(0x0020,0x0011)	SeriesNumber	IS
(0x0020,0x0012)	AcquisitionNumber	IS
(0x0020,0x0013)	InstanceNumber	IS
(0x0020,0x0032)	ImagePositionPatient	DS
(0x0020,0x0037)	ImageOrientationPatient	DS
(0x0020,0x0052)	FrameOfReferenceUID	UI
(0x0020,0x0105)	NumberOfTemporalPositions	IS
(0x0020,0x1002)	ImagesInAcquisition	IS
(0x0020,0x1041)	SliceLocation	DS
(0x0020,0x9128)	TemporalPositionIndex	UL
(0x0028,0x0002)	SamplesPerPixel	US
(0x0028,0x0004)	PhotometricInterpretation	CS
(0x0028,0x0010)	Rows	US
(0x0028,0x0011)	Columns	US
(0x0028,0x0030)	PixelSpacing	DS
(0x0028,0x0100)	BitsAllocated	US
(0x0028,0x0101)	BitsStored	US
(0x0028,0x0102)	HighBit	US
(0x0028,0x0103)	PixelRepresentation	US
(0x0028,0x0106)	SmallestImagePixelValue	US

(0x0028,0x0107)	LargestImagePixelValue	US
(0x0028,0x1050)	WindowCenter	DS
(0x0028,0x1051)	WindowWidth	DS
(0x0028,0x1052)	RescaleIntercept	DS
(0x0028,0x1053)	RescaleSlope	DS
(0x0028,0x1054)	RescaleType	LO
(0x0061,0x0010)	PrivateCreator	LO
(0x0061,0x1001)	CMN JSON Structure	OB
(0x7fe0,0x0010)	PixelData	OB
Series: ct-angiography-brain-mask		
(0x0008,0x0005)	SpecificCharacterSet	CS
(0x0008,0x0008)	ImageType	CS
(0x0008,0x0016)	SOPClassUID	UI
(0x0008,0x0018)	SOPInstanceUID	UI
(0x0008,0x0020)	StudyDate	DA
(0x0008,0x0021)	SeriesDate	DA
(0x0008,0x0022)	AcquisitionDate	DA
(0x0008,0x002a)	AcquisitionDateTime	DT
(0x0008,0x0030)	StudyTime	TM
(0x0008,0x0031)	SeriesTime	TM
(0x0008,0x0032)	AcquisitionTime	TM
(0x0008,0x0050)	AccessionNumber	SH
(0x0008,0x0060)	Modality	CS
(0x0008,0x0070)	Manufacturer	LO
(0x0008,0x0080)	InstitutionName	LO
(0x0008,0x0090)	ReferringPhysicianName	PN
(0x0008,0x0201)	TimezoneOffsetFromUTC	SH
(0x0008,0x1030)	StudyDescription	LO
(0x0008,0x103e)	SeriesDescription	LO
(0x0008,0x1090)	ManufacturerModelName	LO
(0x0008,0x2111)	DerivationDescription	ST
(0x0010,0x0010)	PatientName	PN
(0x0010,0x0020)	PatientID	LO
(0x0010,0x0030)	PatientBirthDate	DA

(0x0010,0x0040)	PatientSex	CS
(0x0010,0x1010)	PatientAge	AS
(0x0018,0x0010)	ContrastBolusAgent	LO
(0x0018,0x0050)	SliceThickness	DS
(0x0018,0x0088)	SpacingBetweenSlices	DS
(0x0018,0x1009)	UniqueDeviceIdentifier	UT
(0x0018,0x100a)	UDISequence	SQ
(0x0018,0x1030)	ProtocolName	LO
(0x0020,0x000d)	StudyInstanceUID	UI
(0x0020,0x000e)	SeriesInstanceUID	UI
(0x0020,0x0010)	StudyID	SH
(0x0020,0x0011)	SeriesNumber	IS
(0x0020,0x0013)	InstanceNumber	IS
(0x0020,0x0032)	ImagePositionPatient	DS
(0x0020,0x0037)	ImageOrientationPatient	DS
(0x0020,0x0052)	FrameOfReferenceUID	UI
(0x0020,0x0105)	NumberOfTemporalPositions	IS
(0x0020,0x1002)	ImagesInAcquisition	IS
(0x0020,0x1041)	SliceLocation	DS
(0x0028,0x0002)	SamplesPerPixel	US
(0x0028,0x0004)	PhotometricInterpretation	CS
(0x0028,0x0010)	Rows	US
(0x0028,0x0011)	Columns	US
(0x0028,0x0030)	PixelSpacing	DS
(0x0028,0x0100)	BitsAllocated	US
(0x0028,0x0101)	BitsStored	US
(0x0028,0x0102)	HighBit	US
(0x0028,0x0103)	PixelRepresentation	US
(0x0028,0x0106)	SmallestImagePixelValue	US
(0x0028,0x0107)	LargestImagePixelValue	US
(0x0028,0x1050)	WindowCenter	DS
(0x0028,0x1051)	WindowWidth	DS
(0x0028,0x1052)	RescaleIntercept	DS
(0x0028,0x1053)	RescaleSlope	DS

(0x0028,0x1054)	RescaleType	LO
(0x0061,0x0010)	PrivateCreator	LO
(0x0061,0x1001)	CMN JSON Structure	OB
(0x7fe0,0x0010)	PixelData	OB
Series: ct-aspects		
(0x0008,0x0005)	SpecificCharacterSet	CS
(0x0008,0x0008)	ImageType	CS
(0x0008,0x0016)	SOPClassUID	UI
(0x0008,0x0018)	SOPInstanceUID	UI
(0x0008,0x0020)	StudyDate	DA
(0x0008,0x0021)	SeriesDate	DA
(0x0008,0x0022)	AcquisitionDate	DA
(0x0008,0x002a)	AcquisitionDateTime	DT
(0x0008,0x0030)	StudyTime	TM
(0x0008,0x0031)	SeriesTime	TM
(0x0008,0x0032)	AcquisitionTime	TM
(0x0008,0x0050)	AccessionNumber	SH
(0x0008,0x0060)	Modality	CS
(0x0008,0x0064)	ConversionType	CS
(0x0008,0x0070)	Manufacturer	LO
(0x0008,0x0080)	InstitutionName	LO
(0x0008,0x0090)	ReferringPhysicianName	PN
(0x0008,0x0201)	TimezoneOffsetFromUTC	SH
(0x0008,0x1030)	StudyDescription	LO
(0x0008,0x103e)	SeriesDescription	LO
(0x0008,0x1090)	ManufacturerModelName	LO
(0x0008,0x2111)	DerivationDescription	ST
(0x0010,0x0010)	PatientName	PN
(0x0010,0x0020)	PatientID	LO
(0x0010,0x0030)	PatientBirthDate	DA
(0x0010,0x0040)	PatientSex	CS
(0x0010,0x1010)	PatientAge	AS
(0x0018,0x0050)	SliceThickness	DS
(0x0018,0x0088)	SpacingBetweenSlices	DS

(0x0018,0x1009)	UniqueDeviceIdentifier	UT
(0x0018,0x100a)	UDISequence	SQ
(0x0018,0x1030)	ProtocolName	LO
(0x0018,0x2010)	NominalScannedPixelSpacing	DS
(0x0020,0x000d)	StudyInstanceUID	UI
(0x0020,0x000e)	SeriesInstanceUID	UI
(0x0020,0x0010)	StudyID	SH
(0x0020,0x0011)	SeriesNumber	IS
(0x0020,0x0013)	InstanceNumber	IS
(0x0020,0x0020)	PatientOrientation	CS
(0x0020,0x0032)	ImagePositionPatient	DS
(0x0020,0x0037)	ImageOrientationPatient	DS
(0x0020,0x0052)	FrameOfReferenceUID	UI
(0x0020,0x0105)	NumberOfTemporalPositions	IS
(0x0020,0x1002)	ImagesInAcquisition	IS
(0x0020,0x1041)	SliceLocation	DS
(0x0028,0x0002)	SamplesPerPixel	US
(0x0028,0x0004)	PhotometricInterpretation	CS
(0x0028,0x0006)	PlanarConfiguration	US
(0x0028,0x0010)	Rows	US
(0x0028,0x0011)	Columns	US
(0x0028,0x0030)	PixelSpacing	DS
(0x0028,0x0100)	BitsAllocated	US
(0x0028,0x0101)	BitsStored	US
(0x0028,0x0102)	HighBit	US
(0x0028,0x0103)	PixelRepresentation	US
(0x0028,0x1050)	WindowCenter	DS
(0x0028,0x1051)	WindowWidth	DS
(0x0028,0x1054)	RescaleType	LO
(0x0061,0x0010)	PrivateCreator	LO
(0x0061,0x1001)	CMN JSON Structure	OB
(0x7fe0,0x0010)	PixelData	OB
Series: ct-aspects-montage		
(0x0008,0x0005)	SpecificCharacterSet	CS

(0x0008,0x0008)	ImageType	CS
(0x0008,0x0016)	SOPClassUID	UI
(0x0008,0x0018)	SOPInstanceUID	UI
(0x0008,0x0020)	StudyDate	DA
(0x0008,0x0021)	SeriesDate	DA
(0x0008,0x0022)	AcquisitionDate	DA
(0x0008,0x002a)	AcquisitionDateTime	DT
(0x0008,0x0030)	StudyTime	TM
(0x0008,0x0031)	SeriesTime	TM
(0x0008,0x0032)	AcquisitionTime	TM
(0x0008,0x0050)	AccessionNumber	SH
(0x0008,0x0060)	Modality	CS
(0x0008,0x0064)	ConversionType	CS
(0x0008,0x0070)	Manufacturer	LO
(0x0008,0x0080)	InstitutionName	LO
(0x0008,0x0090)	ReferringPhysicianName	PN
(0x0008,0x0201)	TimezoneOffsetFromUTC	SH
(0x0008,0x1030)	StudyDescription	LO
(0x0008,0x103e)	SeriesDescription	LO
(0x0008,0x1090)	ManufacturerModelName	LO
(0x0008,0x2111)	DerivationDescription	ST
(0x0010,0x0010)	PatientName	PN
(0x0010,0x0020)	PatientID	LO
(0x0010,0x0030)	PatientBirthDate	DA
(0x0010,0x0040)	PatientSex	CS
(0x0010,0x1010)	PatientAge	AS
(0x0018,0x0050)	SliceThickness	DS
(0x0018,0x0088)	SpacingBetweenSlices	DS
(0x0018,0x1009)	UniqueDeviceIdentifier	UT
(0x0018,0x100a)	UDISequence	SQ
(0x0018,0x1030)	ProtocolName	LO
(0x0018,0x2010)	NominalScannedPixelSpacing	DS
(0x0020,0x000d)	StudyInstanceUID	UI
(0x0020,0x000e)	SeriesInstanceUID	UI

(0x0020,0x0010)	StudyID	SH
(0x0020,0x0011)	SeriesNumber	IS
(0x0020,0x0013)	InstanceNumber	IS
(0x0020,0x0020)	PatientOrientation	CS
(0x0020,0x0032)	ImagePositionPatient	DS
(0x0020,0x0037)	ImageOrientationPatient	DS
(0x0020,0x0052)	FrameOfReferenceUID	UI
(0x0020,0x0105)	NumberOfTemporalPositions	IS
(0x0020,0x1002)	ImagesInAcquisition	IS
(0x0020,0x1041)	SliceLocation	DS
(0x0028,0x0002)	SamplesPerPixel	US
(0x0028,0x0004)	PhotometricInterpretation	CS
(0x0028,0x0006)	PlanarConfiguration	US
(0x0028,0x0010)	Rows	US
(0x0028,0x0011)	Columns	US
(0x0028,0x0030)	PixelSpacing	DS
(0x0028,0x0100)	BitsAllocated	US
(0x0028,0x0101)	BitsStored	US
(0x0028,0x0102)	HighBit	US
(0x0028,0x0103)	PixelRepresentation	US
(0x0028,0x1050)	WindowCenter	DS
(0x0028,0x1051)	WindowWidth	DS
(0x0028,0x1054)	RescaleType	LO
(0x0061,0x0010)	PrivateCreator	LO
(0x0061,0x1001)	CMN JSON Structure	OB
(0x7fe0,0x0010)	PixelData	OB
Series: ct-aspects-montage-overview		
(0x0008,0x0005)	SpecificCharacterSet	CS
(0x0008,0x0008)	ImageType	CS
(0x0008,0x0016)	SOPClassUID	UI
(0x0008,0x0018)	SOPInstanceUID	UI
(0x0008,0x0020)	StudyDate	DA
(0x0008,0x0021)	SeriesDate	DA
(0x0008,0x0022)	AcquisitionDate	DA

(0x0008,0x002a)	AcquisitionDateTime	DT
(0x0008,0x0030)	StudyTime	TM
(0x0008,0x0031)	SeriesTime	TM
(0x0008,0x0032)	AcquisitionTime	TM
(0x0008,0x0050)	AccessionNumber	SH
(0x0008,0x0060)	Modality	CS
(0x0008,0x0064)	ConversionType	CS
(0x0008,0x0070)	Manufacturer	LO
(0x0008,0x0080)	InstitutionName	LO
(0x0008,0x0090)	ReferringPhysicianName	PN
(0x0008,0x0201)	TimezoneOffsetFromUTC	SH
(0x0008,0x1030)	StudyDescription	LO
(0x0008,0x103e)	SeriesDescription	LO
(0x0008,0x1090)	ManufacturerModelName	LO
(0x0008,0x2111)	DerivationDescription	ST
(0x0010,0x0010)	PatientName	PN
(0x0010,0x0020)	PatientID	LO
(0x0010,0x0030)	PatientBirthDate	DA
(0x0010,0x0040)	PatientSex	CS
(0x0010,0x1010)	PatientAge	AS
(0x0018,0x0050)	SliceThickness	DS
(0x0018,0x0088)	SpacingBetweenSlices	DS
(0x0018,0x1009)	UniqueDeviceIdentifier	UT
(0x0018,0x100a)	UDISequence	SQ
(0x0018,0x1030)	ProtocolName	LO
(0x0018,0x2010)	NominalScannedPixelSpacing	DS
(0x0020,0x000d)	StudyInstanceUID	UI
(0x0020,0x000e)	SeriesInstanceUID	UI
(0x0020,0x0010)	StudyID	SH
(0x0020,0x0011)	SeriesNumber	IS
(0x0020,0x0013)	InstanceNumber	IS
(0x0020,0x0020)	PatientOrientation	CS
(0x0020,0x0032)	ImagePositionPatient	DS
(0x0020,0x0037)	ImageOrientationPatient	DS

(0x0020,0x0052)	FrameOfReferenceUID	UI
(0x0020,0x0105)	NumberOfTemporalPositions	IS
(0x0020,0x1002)	ImagesInAcquisition	IS
(0x0020,0x1041)	SliceLocation	DS
(0x0028,0x0002)	SamplesPerPixel	US
(0x0028,0x0004)	PhotometricInterpretation	CS
(0x0028,0x0006)	PlanarConfiguration	US
(0x0028,0x0010)	Rows	US
(0x0028,0x0011)	Columns	US
(0x0028,0x0030)	PixelSpacing	DS
(0x0028,0x0100)	BitsAllocated	US
(0x0028,0x0101)	BitsStored	US
(0x0028,0x0102)	HighBit	US
(0x0028,0x0103)	PixelRepresentation	US
(0x0028,0x1050)	WindowCenter	DS
(0x0028,0x1051)	WindowWidth	DS
(0x0028,0x1054)	RescaleType	LO
(0x0061,0x0010)	PrivateCreator	LO
(0x0061,0x1001)	CMN JSON Structure	OB
(0x7fe0,0x0010)	PixelData	OB
Series: ct-aspects-regions		
(0x0008,0x0005)	SpecificCharacterSet	CS
(0x0008,0x0008)	ImageType	CS
(0x0008,0x0016)	SOPClassUID	UI
(0x0008,0x0018)	SOPInstanceUID	UI
(0x0008,0x0020)	StudyDate	DA
(0x0008,0x0021)	SeriesDate	DA
(0x0008,0x0022)	AcquisitionDate	DA
(0x0008,0x002a)	AcquisitionDateTime	DT
(0x0008,0x0030)	StudyTime	TM
(0x0008,0x0031)	SeriesTime	TM
(0x0008,0x0032)	AcquisitionTime	TM
(0x0008,0x0050)	AccessionNumber	SH
(0x0008,0x0060)	Modality	CS

(0x0008,0x0064)	ConversionType	CS
(0x0008,0x0070)	Manufacturer	LO
(0x0008,0x0080)	InstitutionName	LO
(0x0008,0x0090)	ReferringPhysicianName	PN
(0x0008,0x0201)	TimezoneOffsetFromUTC	SH
(0x0008,0x1030)	StudyDescription	LO
(0x0008,0x103e)	SeriesDescription	LO
(0x0008,0x1090)	ManufacturerModelName	LO
(0x0008,0x2111)	DerivationDescription	ST
(0x0010,0x0010)	PatientName	PN
(0x0010,0x0020)	PatientID	LO
(0x0010,0x0030)	PatientBirthDate	DA
(0x0010,0x0040)	PatientSex	CS
(0x0010,0x1010)	PatientAge	AS
(0x0018,0x0050)	SliceThickness	DS
(0x0018,0x0088)	SpacingBetweenSlices	DS
(0x0018,0x1009)	UniqueDeviceIdentifier	UT
(0x0018,0x100a)	UDISequence	SQ
(0x0018,0x1030)	ProtocolName	LO
(0x0018,0x2010)	NominalScannedPixelSpacing	DS
(0x0020,0x000d)	StudyInstanceUID	UI
(0x0020,0x000e)	SeriesInstanceUID	UI
(0x0020,0x0010)	StudyID	SH
(0x0020,0x0011)	SeriesNumber	IS
(0x0020,0x0013)	InstanceNumber	IS
(0x0020,0x0020)	PatientOrientation	CS
(0x0020,0x0032)	ImagePositionPatient	DS
(0x0020,0x0037)	ImageOrientationPatient	DS
(0x0020,0x0052)	FrameOfReferenceUID	UI
(0x0020,0x0105)	NumberOfTemporalPositions	IS
(0x0020,0x1002)	ImagesInAcquisition	IS
(0x0020,0x1041)	SliceLocation	DS
(0x0028,0x0002)	SamplesPerPixel	US
(0x0028,0x0004)	PhotometricInterpretation	CS

(0x0028,0x0006)	PlanarConfiguration	US
(0x0028,0x0010)	Rows	US
(0x0028,0x0011)	Columns	US
(0x0028,0x0030)	PixelSpacing	DS
(0x0028,0x0100)	BitsAllocated	US
(0x0028,0x0101)	BitsStored	US
(0x0028,0x0102)	HighBit	US
(0x0028,0x0103)	PixelRepresentation	US
(0x0028,0x1050)	WindowCenter	DS
(0x0028,0x1051)	WindowWidth	DS
(0x0028,0x1054)	RescaleType	LO
(0x0061,0x0010)	PrivateCreator	LO
(0x0061,0x1001)	CMN JSON Structure	OB
(0x7fe0,0x0010)	PixelData	OB
Series: ct-cbf-threshold		
(0x0008,0x0008)	ImageType	CS
(0x0008,0x0016)	SOPClassUID	UI
(0x0008,0x0018)	SOPInstanceUID	UI
(0x0008,0x0020)	StudyDate	DA
(0x0008,0x0021)	SeriesDate	DA
(0x0008,0x0022)	AcquisitionDate	DA
(0x0008,0x002a)	AcquisitionDateTime	DT
(0x0008,0x0030)	StudyTime	TM
(0x0008,0x0031)	SeriesTime	TM
(0x0008,0x0032)	AcquisitionTime	TM
(0x0008,0x0050)	AccessionNumber	SH
(0x0008,0x0060)	Modality	CS
(0x0008,0x0064)	ConversionType	CS
(0x0008,0x0070)	Manufacturer	LO
(0x0008,0x0080)	InstitutionName	LO
(0x0008,0x0090)	ReferringPhysicianName	PN
(0x0008,0x0201)	TimezoneOffsetFromUTC	SH
(0x0008,0x1010)	StationName	SH
(0x0008,0x1030)	StudyDescription	LO

(0x0008,0x103e)	SeriesDescription	LO
(0x0008,0x1090)	ManufacturerModelName	LO
(0x0008,0x2111)	DerivationDescription	ST
(0x0010,0x0010)	PatientName	PN
(0x0010,0x0020)	PatientID	LO
(0x0010,0x0030)	PatientBirthDate	DA
(0x0010,0x0040)	PatientSex	CS
(0x0010,0x1010)	PatientAge	AS
(0x0018,0x0050)	SliceThickness	DS
(0x0018,0x0088)	SpacingBetweenSlices	DS
(0x0018,0x1009)	UniqueDeviceIdentifier	UT
(0x0018,0x100a)	UDISequence	SQ
(0x0018,0x1030)	ProtocolName	LO
(0x0018,0x2010)	NominalScannedPixelSpacing	DS
(0x0020,0x000d)	StudyInstanceUID	UI
(0x0020,0x000e)	SeriesInstanceUID	UI
(0x0020,0x0010)	StudyID	SH
(0x0020,0x0011)	SeriesNumber	IS
(0x0020,0x0013)	InstanceNumber	IS
(0x0020,0x0020)	PatientOrientation	CS
(0x0020,0x0032)	ImagePositionPatient	DS
(0x0020,0x0037)	ImageOrientationPatient	DS
(0x0020,0x0052)	FrameOfReferenceUID	UI
(0x0020,0x0105)	NumberOfTemporalPositions	IS
(0x0020,0x1002)	ImagesInAcquisition	IS
(0x0020,0x1041)	SliceLocation	DS
(0x0028,0x0002)	SamplesPerPixel	US
(0x0028,0x0004)	PhotometricInterpretation	CS
(0x0028,0x0006)	PlanarConfiguration	US
(0x0028,0x0010)	Rows	US
(0x0028,0x0011)	Columns	US
(0x0028,0x0030)	PixelSpacing	DS
(0x0028,0x0100)	BitsAllocated	US
(0x0028,0x0101)	BitsStored	US

(0x0028,0x0102)	HighBit	US
(0x0028,0x0103)	PixelRepresentation	US
(0x0028,0x1050)	WindowCenter	DS
(0x0028,0x1051)	WindowWidth	DS
(0x0028,0x1054)	RescaleType	LO
(0x0061,0x0010)	PrivateCreator	LO
(0x0061,0x1001)	CMN JSON Structure	OB
(0x7fe0,0x0010)	PixelData	OB
Series: ct-cbv-threshold		
(0x0008,0x0008)	ImageType	CS
(0x0008,0x0016)	SOPClassUID	UI
(0x0008,0x0018)	SOPInstanceUID	UI
(0x0008,0x0020)	StudyDate	DA
(0x0008,0x0021)	SeriesDate	DA
(0x0008,0x0022)	AcquisitionDate	DA
(0x0008,0x002a)	AcquisitionDateTime	DT
(0x0008,0x0030)	StudyTime	TM
(0x0008,0x0031)	SeriesTime	TM
(0x0008,0x0032)	AcquisitionTime	TM
(0x0008,0x0050)	AccessionNumber	SH
(0x0008,0x0060)	Modality	CS
(0x0008,0x0064)	ConversionType	CS
(0x0008,0x0070)	Manufacturer	LO
(0x0008,0x0080)	InstitutionName	LO
(0x0008,0x0090)	ReferringPhysicianName	PN
(0x0008,0x0201)	TimezoneOffsetFromUTC	SH
(0x0008,0x1010)	StationName	SH
(0x0008,0x1030)	StudyDescription	LO
(0x0008,0x103e)	SeriesDescription	LO
(0x0008,0x1090)	ManufacturerModelName	LO
(0x0008,0x2111)	DerivationDescription	ST
(0x0010,0x0010)	PatientName	PN
(0x0010,0x0020)	PatientID	LO
(0x0010,0x0030)	PatientBirthDate	DA

(0x0010,0x0040)	PatientSex	CS
(0x0010,0x1010)	PatientAge	AS
(0x0018,0x0050)	SliceThickness	DS
(0x0018,0x0088)	SpacingBetweenSlices	DS
(0x0018,0x1009)	UniqueDeviceIdentifier	UT
(0x0018,0x100a)	UDISequence	SQ
(0x0018,0x1030)	ProtocolName	LO
(0x0018,0x2010)	NominalScannedPixelSpacing	DS
(0x0020,0x000d)	StudyInstanceUID	UI
(0x0020,0x000e)	SeriesInstanceUID	UI
(0x0020,0x0010)	StudyID	SH
(0x0020,0x0011)	SeriesNumber	IS
(0x0020,0x0013)	InstanceNumber	IS
(0x0020,0x0020)	PatientOrientation	CS
(0x0020,0x0032)	ImagePositionPatient	DS
(0x0020,0x0037)	ImageOrientationPatient	DS
(0x0020,0x0052)	FrameOfReferenceUID	UI
(0x0020,0x0105)	NumberOfTemporalPositions	IS
(0x0020,0x1002)	ImagesInAcquisition	IS
(0x0020,0x1041)	SliceLocation	DS
(0x0028,0x0002)	SamplesPerPixel	US
(0x0028,0x0004)	PhotometricInterpretation	CS
(0x0028,0x0006)	PlanarConfiguration	US
(0x0028,0x0010)	Rows	US
(0x0028,0x0011)	Columns	US
(0x0028,0x0030)	PixelSpacing	DS
(0x0028,0x0100)	BitsAllocated	US
(0x0028,0x0101)	BitsStored	US
(0x0028,0x0102)	HighBit	US
(0x0028,0x0103)	PixelRepresentation	US
(0x0028,0x1050)	WindowCenter	DS
(0x0028,0x1051)	WindowWidth	DS
(0x0028,0x1054)	RescaleType	LO
(0x0061,0x0010)	PrivateCreator	LO

(0x0061,0x1001)	CMN JSON Structure	OB
(0x7fe0,0x0010)	PixelData	OB
Series: ct-core-lesion		
(0x0008,0x0005)	SpecificCharacterSet	CS
(0x0008,0x0008)	ImageType	CS
(0x0008,0x0016)	SOPClassUID	UI
(0x0008,0x0018)	SOPInstanceUID	UI
(0x0008,0x0020)	StudyDate	DA
(0x0008,0x0021)	SeriesDate	DA
(0x0008,0x0022)	AcquisitionDate	DA
(0x0008,0x002a)	AcquisitionDateTime	DT
(0x0008,0x0030)	StudyTime	TM
(0x0008,0x0031)	SeriesTime	TM
(0x0008,0x0032)	AcquisitionTime	TM
(0x0008,0x0050)	AccessionNumber	SH
(0x0008,0x0060)	Modality	CS
(0x0008,0x0064)	ConversionType	CS
(0x0008,0x0070)	Manufacturer	LO
(0x0008,0x0080)	InstitutionName	LO
(0x0008,0x0090)	ReferringPhysicianName	PN
(0x0008,0x0201)	TimezoneOffsetFromUTC	SH
(0x0008,0x1010)	StationName	SH
(0x0008,0x1030)	StudyDescription	LO
(0x0008,0x103e)	SeriesDescription	LO
(0x0008,0x1090)	ManufacturerModelName	LO
(0x0008,0x2111)	DerivationDescription	ST
(0x0010,0x0010)	PatientName	PN
(0x0010,0x0020)	PatientID	LO
(0x0010,0x0030)	PatientBirthDate	DA
(0x0010,0x0040)	PatientSex	CS
(0x0010,0x1010)	PatientAge	AS
(0x0018,0x0050)	SliceThickness	DS
(0x0018,0x0088)	SpacingBetweenSlices	DS
(0x0018,0x1009)	UniqueDeviceIdentifier	UT

(0x0018,0x100a)	UDISequence	SQ
(0x0018,0x1030)	ProtocolName	LO
(0x0018,0x2010)	NominalScannedPixelSpacing	DS
(0x0020,0x000d)	StudyInstanceUID	UI
(0x0020,0x000e)	SeriesInstanceUID	UI
(0x0020,0x0010)	StudyID	SH
(0x0020,0x0011)	SeriesNumber	IS
(0x0020,0x0013)	InstanceNumber	IS
(0x0020,0x0020)	PatientOrientation	CS
(0x0020,0x0032)	ImagePositionPatient	DS
(0x0020,0x0037)	ImageOrientationPatient	DS
(0x0020,0x0052)	FrameOfReferenceUID	UI
(0x0020,0x0105)	NumberOfTemporalPositions	IS
(0x0020,0x1002)	ImagesInAcquisition	IS
(0x0020,0x1041)	SliceLocation	DS
(0x0028,0x0002)	SamplesPerPixel	US
(0x0028,0x0004)	PhotometricInterpretation	CS
(0x0028,0x0006)	PlanarConfiguration	US
(0x0028,0x0010)	Rows	US
(0x0028,0x0011)	Columns	US
(0x0028,0x0030)	PixelSpacing	DS
(0x0028,0x0100)	BitsAllocated	US
(0x0028,0x0101)	BitsStored	US
(0x0028,0x0102)	HighBit	US
(0x0028,0x0103)	PixelRepresentation	US
(0x0028,0x1050)	WindowCenter	DS
(0x0028,0x1051)	WindowWidth	DS
(0x0028,0x1054)	RescaleType	LO
(0x0061,0x0010)	PrivateCreator	LO
(0x0061,0x1001)	CMN JSON Structure	OB
(0x7fe0,0x0010)	PixelData	OB
Series: ct-hypoperfusion-lesion		
(0x0008,0x0005)	SpecificCharacterSet	CS
(0x0008,0x0008)	ImageType	CS

(0x0008,0x0016)	SOPClassUID	UI
(0x0008,0x0018)	SOPInstanceUID	UI
(0x0008,0x0020)	StudyDate	DA
(0x0008,0x0021)	SeriesDate	DA
(0x0008,0x0022)	AcquisitionDate	DA
(0x0008,0x002a)	AcquisitionDateTime	DT
(0x0008,0x0030)	StudyTime	TM
(0x0008,0x0031)	SeriesTime	TM
(0x0008,0x0032)	AcquisitionTime	TM
(0x0008,0x0050)	AccessionNumber	SH
(0x0008,0x0060)	Modality	CS
(0x0008,0x0064)	ConversionType	CS
(0x0008,0x0070)	Manufacturer	LO
(0x0008,0x0080)	InstitutionName	LO
(0x0008,0x0090)	ReferringPhysicianName	PN
(0x0008,0x0201)	TimezoneOffsetFromUTC	SH
(0x0008,0x1010)	StationName	SH
(0x0008,0x1030)	StudyDescription	LO
(0x0008,0x103e)	SeriesDescription	LO
(0x0008,0x1090)	ManufacturerModelName	LO
(0x0008,0x2111)	DerivationDescription	ST
(0x0010,0x0010)	PatientName	PN
(0x0010,0x0020)	PatientID	LO
(0x0010,0x0030)	PatientBirthDate	DA
(0x0010,0x0040)	PatientSex	CS
(0x0010,0x1010)	PatientAge	AS
(0x0018,0x0050)	SliceThickness	DS
(0x0018,0x0088)	SpacingBetweenSlices	DS
(0x0018,0x1009)	UniqueDeviceIdentifier	UT
(0x0018,0x100a)	UDISequence	SQ
(0x0018,0x1030)	ProtocolName	LO
(0x0018,0x2010)	NominalScannedPixelSpacing	DS
(0x0020,0x000d)	StudyInstanceUID	UI
(0x0020,0x000e)	SeriesInstanceUID	UI

(0x0020,0x0010)	StudyID	SH
(0x0020,0x0011)	SeriesNumber	IS
(0x0020,0x0013)	InstanceNumber	IS
(0x0020,0x0020)	PatientOrientation	CS
(0x0020,0x0032)	ImagePositionPatient	DS
(0x0020,0x0037)	ImageOrientationPatient	DS
(0x0020,0x0052)	FrameOfReferenceUID	UI
(0x0020,0x0105)	NumberOfTemporalPositions	IS
(0x0020,0x1002)	ImagesInAcquisition	IS
(0x0020,0x1041)	SliceLocation	DS
(0x0028,0x0002)	SamplesPerPixel	US
(0x0028,0x0004)	PhotometricInterpretation	CS
(0x0028,0x0006)	PlanarConfiguration	US
(0x0028,0x0010)	Rows	US
(0x0028,0x0011)	Columns	US
(0x0028,0x0030)	PixelSpacing	DS
(0x0028,0x0100)	BitsAllocated	US
(0x0028,0x0101)	BitsStored	US
(0x0028,0x0102)	HighBit	US
(0x0028,0x0103)	PixelRepresentation	US
(0x0028,0x1050)	WindowCenter	DS
(0x0028,0x1051)	WindowWidth	DS
(0x0028,0x1054)	RescaleType	LO
(0x0061,0x0010)	PrivateCreator	LO
(0x0061,0x1001)	CMN JSON Structure	OB
(0x7fe0,0x0010)	PixelData	OB
Series: ct-ich-lesion		
(0x0008,0x0005)	SpecificCharacterSet	CS
(0x0008,0x0008)	ImageType	CS
(0x0008,0x0016)	SOPClassUID	UI
(0x0008,0x0018)	SOPInstanceUID	UI
(0x0008,0x0020)	StudyDate	DA
(0x0008,0x0021)	SeriesDate	DA
(0x0008,0x0022)	AcquisitionDate	DA

(0x0008,0x002a)	AcquisitionDateTime	DT
(0x0008,0x0030)	StudyTime	TM
(0x0008,0x0031)	SeriesTime	TM
(0x0008,0x0032)	AcquisitionTime	TM
(0x0008,0x0050)	AccessionNumber	SH
(0x0008,0x0060)	Modality	CS
(0x0008,0x0064)	ConversionType	CS
(0x0008,0x0070)	Manufacturer	LO
(0x0008,0x0080)	InstitutionName	LO
(0x0008,0x0090)	ReferringPhysicianName	PN
(0x0008,0x0201)	TimezoneOffsetFromUTC	SH
(0x0008,0x1030)	StudyDescription	LO
(0x0008,0x103e)	SeriesDescription	LO
(0x0008,0x1090)	ManufacturerModelName	LO
(0x0008,0x2111)	DerivationDescription	ST
(0x0010,0x0010)	PatientName	PN
(0x0010,0x0020)	PatientID	LO
(0x0010,0x0030)	PatientBirthDate	DA
(0x0010,0x0040)	PatientSex	CS
(0x0010,0x1010)	PatientAge	AS
(0x0018,0x0050)	SliceThickness	DS
(0x0018,0x0088)	SpacingBetweenSlices	DS
(0x0018,0x1009)	UniqueDeviceIdentifier	UT
(0x0018,0x100a)	UDISequence	SQ
(0x0018,0x1030)	ProtocolName	LO
(0x0018,0x2010)	NominalScannedPixelSpacing	DS
(0x0020,0x000d)	StudyInstanceUID	UI
(0x0020,0x000e)	SeriesInstanceUID	UI
(0x0020,0x0010)	StudyID	SH
(0x0020,0x0011)	SeriesNumber	IS
(0x0020,0x0013)	InstanceNumber	IS
(0x0020,0x0020)	PatientOrientation	CS
(0x0020,0x0032)	ImagePositionPatient	DS
(0x0020,0x0037)	ImageOrientationPatient	DS

(0x0020,0x0052)	FrameOfReferenceUID	UI
(0x0020,0x0105)	NumberOfTemporalPositions	IS
(0x0020,0x1002)	ImagesInAcquisition	IS
(0x0020,0x1041)	SliceLocation	DS
(0x0028,0x0002)	SamplesPerPixel	US
(0x0028,0x0004)	PhotometricInterpretation	CS
(0x0028,0x0006)	PlanarConfiguration	US
(0x0028,0x0010)	Rows	US
(0x0028,0x0011)	Columns	US
(0x0028,0x0030)	PixelSpacing	DS
(0x0028,0x0100)	BitsAllocated	US
(0x0028,0x0101)	BitsStored	US
(0x0028,0x0102)	HighBit	US
(0x0028,0x0103)	PixelRepresentation	US
(0x0028,0x1050)	WindowCenter	DS
(0x0028,0x1051)	WindowWidth	DS
(0x0028,0x1054)	RescaleType	LO
(0x0061,0x0010)	PrivateCreator	LO
(0x0061,0x1001)	CMN JSON Structure	OB
(0x7fe0,0x0010)	PixelData	OB
Series: ct-noncontrast		
(0x0008,0x0005)	SpecificCharacterSet	CS
(0x0008,0x0008)	ImageType	CS
(0x0008,0x0016)	SOPClassUID	UI
(0x0008,0x0018)	SOPInstanceUID	UI
(0x0008,0x0020)	StudyDate	DA
(0x0008,0x0021)	SeriesDate	DA
(0x0008,0x0022)	AcquisitionDate	DA
(0x0008,0x002a)	AcquisitionDateTime	DT
(0x0008,0x0030)	StudyTime	TM
(0x0008,0x0031)	SeriesTime	TM
(0x0008,0x0032)	AcquisitionTime	TM
(0x0008,0x0033)	ContentTime	TM
(0x0008,0x0050)	AccessionNumber	SH

(0x0008,0x0060)	Modality	CS
(0x0008,0x0070)	Manufacturer	LO
(0x0008,0x0080)	InstitutionName	LO
(0x0008,0x0090)	ReferringPhysicianName	PN
(0x0008,0x0201)	TimezoneOffsetFromUTC	SH
(0x0008,0x1010)	StationName	SH
(0x0008,0x1030)	StudyDescription	LO
(0x0008,0x103e)	SeriesDescription	LO
(0x0008,0x1090)	ManufacturerModelName	LO
(0x0008,0x2111)	DerivationDescription	ST
(0x0010,0x0010)	PatientName	PN
(0x0010,0x0020)	PatientID	LO
(0x0010,0x0030)	PatientBirthDate	DA
(0x0010,0x0040)	PatientSex	CS
(0x0010,0x1010)	PatientAge	AS
(0x0018,0x0050)	SliceThickness	DS
(0x0018,0x0088)	SpacingBetweenSlices	DS
(0x0018,0x1009)	UniqueDeviceIdentifier	UT
(0x0018,0x100a)	UDISequence	SQ
(0x0018,0x1030)	ProtocolName	LO
(0x0020,0x000d)	StudyInstanceUID	UI
(0x0020,0x000e)	SeriesInstanceUID	UI
(0x0020,0x0010)	StudyID	SH
(0x0020,0x0011)	SeriesNumber	IS
(0x0020,0x0012)	AcquisitionNumber	IS
(0x0020,0x0013)	InstanceNumber	IS
(0x0020,0x0032)	ImagePositionPatient	DS
(0x0020,0x0037)	ImageOrientationPatient	DS
(0x0020,0x0052)	FrameOfReferenceUID	UI
(0x0020,0x0105)	NumberOfTemporalPositions	IS
(0x0020,0x1002)	ImagesInAcquisition	IS
(0x0020,0x1041)	SliceLocation	DS
(0x0020,0x9128)	TemporalPositionIndex	UL
(0x0028,0x0002)	SamplesPerPixel	US

(0x0028,0x0004)	PhotometricInterpretation	CS
(0x0028,0x0010)	Rows	US
(0x0028,0x0011)	Columns	US
(0x0028,0x0030)	PixelSpacing	DS
(0x0028,0x0100)	BitsAllocated	US
(0x0028,0x0101)	BitsStored	US
(0x0028,0x0102)	HighBit	US
(0x0028,0x0103)	PixelRepresentation	US
(0x0028,0x0106)	SmallestImagePixelValue	US
(0x0028,0x0107)	LargestImagePixelValue	US
(0x0028,0x1050)	WindowCenter	DS
(0x0028,0x1051)	WindowWidth	DS
(0x0028,0x1052)	RescaleIntercept	DS
(0x0028,0x1053)	RescaleSlope	DS
(0x0028,0x1054)	RescaleType	LO
(0x0061,0x0010)	PrivateCreator	LO
(0x0061,0x1001)	CMN JSON Structure	OB
(0x7fe0,0x0010)	PixelData	OB
Series: ct-noncontrast-aspects		
(0x0008,0x0005)	SpecificCharacterSet	CS
(0x0008,0x0008)	ImageType	CS
(0x0008,0x0016)	SOPClassUID	UI
(0x0008,0x0018)	SOPInstanceUID	UI
(0x0008,0x0020)	StudyDate	DA
(0x0008,0x0021)	SeriesDate	DA
(0x0008,0x0022)	AcquisitionDate	DA
(0x0008,0x002a)	AcquisitionDateTime	DT
(0x0008,0x0030)	StudyTime	TM
(0x0008,0x0031)	SeriesTime	TM
(0x0008,0x0032)	AcquisitionTime	TM
(0x0008,0x0050)	AccessionNumber	SH
(0x0008,0x0060)	Modality	CS
(0x0008,0x0070)	Manufacturer	LO
(0x0008,0x0080)	InstitutionName	LO

(0x0008,0x0090)	ReferringPhysicianName	PN
(0x0008,0x0201)	TimezoneOffsetFromUTC	SH
(0x0008,0x1030)	StudyDescription	LO
(0x0008,0x103e)	SeriesDescription	LO
(0x0008,0x1090)	ManufacturerModelName	LO
(0x0008,0x2111)	DerivationDescription	ST
(0x0010,0x0010)	PatientName	PN
(0x0010,0x0020)	PatientID	LO
(0x0010,0x0030)	PatientBirthDate	DA
(0x0010,0x0040)	PatientSex	CS
(0x0010,0x1010)	PatientAge	AS
(0x0018,0x0050)	SliceThickness	DS
(0x0018,0x0088)	SpacingBetweenSlices	DS
(0x0018,0x1009)	UniqueDeviceIdentifier	UT
(0x0018,0x100a)	UDISequence	SQ
(0x0018,0x1030)	ProtocolName	LO
(0x0020,0x000d)	StudyInstanceUID	UI
(0x0020,0x000e)	SeriesInstanceUID	UI
(0x0020,0x0010)	StudyID	SH
(0x0020,0x0011)	SeriesNumber	IS
(0x0020,0x0013)	InstanceNumber	IS
(0x0020,0x0032)	ImagePositionPatient	DS
(0x0020,0x0037)	ImageOrientationPatient	DS
(0x0020,0x0052)	FrameOfReferenceUID	UI
(0x0020,0x0105)	NumberOfTemporalPositions	IS
(0x0020,0x1002)	ImagesInAcquisition	IS
(0x0020,0x1041)	SliceLocation	DS
(0x0028,0x0002)	SamplesPerPixel	US
(0x0028,0x0004)	PhotometricInterpretation	CS
(0x0028,0x0010)	Rows	US
(0x0028,0x0011)	Columns	US
(0x0028,0x0030)	PixelSpacing	DS
(0x0028,0x0100)	BitsAllocated	US
(0x0028,0x0101)	BitsStored	US

(0x0028,0x0102)	HighBit	US
(0x0028,0x0103)	PixelRepresentation	US
(0x0028,0x0106)	SmallestImagePixelValue	US
(0x0028,0x0107)	LargestImagePixelValue	US
(0x0028,0x1050)	WindowCenter	DS
(0x0028,0x1051)	WindowWidth	DS
(0x0028,0x1052)	RescaleIntercept	DS
(0x0028,0x1053)	RescaleSlope	DS
(0x0028,0x1054)	RescaleType	LO
(0x0061,0x0010)	PrivateCreator	LO
(0x0061,0x1001)	CMN JSON Structure	OB
(0x7fe0,0x0010)	PixelData	OB
Series: ct-perfusion		
(0x0008,0x0005)	SpecificCharacterSet	CS
(0x0008,0x0008)	ImageType	CS
(0x0008,0x0016)	SOPClassUID	UI
(0x0008,0x0018)	SOPInstanceUID	UI
(0x0008,0x0020)	StudyDate	DA
(0x0008,0x0021)	SeriesDate	DA
(0x0008,0x0022)	AcquisitionDate	DA
(0x0008,0x002a)	AcquisitionDateTime	DT
(0x0008,0x0030)	StudyTime	TM
(0x0008,0x0031)	SeriesTime	TM
(0x0008,0x0032)	AcquisitionTime	TM
(0x0008,0x0033)	ContentTime	TM
(0x0008,0x0050)	AccessionNumber	SH
(0x0008,0x0060)	Modality	CS
(0x0008,0x0070)	Manufacturer	LO
(0x0008,0x0080)	InstitutionName	LO
(0x0008,0x0090)	ReferringPhysicianName	PN
(0x0008,0x0201)	TimezoneOffsetFromUTC	SH
(0x0008,0x1010)	StationName	SH
(0x0008,0x1030)	StudyDescription	LO
(0x0008,0x103e)	SeriesDescription	LO

(0x0008,0x1090)	ManufacturerModelName	LO
(0x0008,0x2111)	DerivationDescription	ST
(0x0010,0x0010)	PatientName	PN
(0x0010,0x0020)	PatientID	LO
(0x0010,0x0030)	PatientBirthDate	DA
(0x0010,0x0040)	PatientSex	CS
(0x0010,0x1010)	PatientAge	AS
(0x0018,0x0010)	ContrastBolusAgent	LO
(0x0018,0x0050)	SliceThickness	DS
(0x0018,0x0088)	SpacingBetweenSlices	DS
(0x0018,0x1009)	UniqueDeviceIdentifier	UT
(0x0018,0x100a)	UDISequence	SQ
(0x0018,0x1030)	ProtocolName	LO
(0x0018,0x1060)	TriggerTime	DS
(0x0020,0x000d)	StudyInstanceUID	UI
(0x0020,0x000e)	SeriesInstanceUID	UI
(0x0020,0x0010)	StudyID	SH
(0x0020,0x0011)	SeriesNumber	IS
(0x0020,0x0012)	AcquisitionNumber	IS
(0x0020,0x0013)	InstanceNumber	IS
(0x0020,0x0032)	ImagePositionPatient	DS
(0x0020,0x0037)	ImageOrientationPatient	DS
(0x0020,0x0052)	FrameOfReferenceUID	UI
(0x0020,0x0105)	NumberOfTemporalPositions	IS
(0x0020,0x1002)	ImagesInAcquisition	IS
(0x0020,0x1041)	SliceLocation	DS
(0x0020,0x9128)	TemporalPositionIndex	UL
(0x0028,0x0002)	SamplesPerPixel	US
(0x0028,0x0004)	PhotometricInterpretation	CS
(0x0028,0x0010)	Rows	US
(0x0028,0x0011)	Columns	US
(0x0028,0x0030)	PixelSpacing	DS
(0x0028,0x0100)	BitsAllocated	US
(0x0028,0x0101)	BitsStored	US

(0x0028,0x0102)	HighBit	US
(0x0028,0x0103)	PixelRepresentation	US
(0x0028,0x0106)	SmallestImagePixelValue	US
(0x0028,0x0107)	LargestImagePixelValue	US
(0x0028,0x1050)	WindowCenter	DS
(0x0028,0x1051)	WindowWidth	DS
(0x0028,0x1052)	RescaleIntercept	DS
(0x0028,0x1053)	RescaleSlope	DS
(0x0028,0x1054)	RescaleType	LO
(0x0061,0x0010)	PrivateCreator	LO
(0x0061,0x1001)	CMN JSON Structure	OB
(0x7fe0,0x0010)	PixelData	OB
Series: cta-axial-lvo-detection		
(0x0008,0x0005)	SpecificCharacterSet	CS
(0x0008,0x0008)	ImageType	CS
(0x0008,0x0016)	SOPClassUID	UI
(0x0008,0x0018)	SOPInstanceUID	UI
(0x0008,0x0020)	StudyDate	DA
(0x0008,0x0021)	SeriesDate	DA
(0x0008,0x0022)	AcquisitionDate	DA
(0x0008,0x002a)	AcquisitionDateTime	DT
(0x0008,0x0030)	StudyTime	TM
(0x0008,0x0031)	SeriesTime	TM
(0x0008,0x0032)	AcquisitionTime	TM
(0x0008,0x0050)	AccessionNumber	SH
(0x0008,0x0060)	Modality	CS
(0x0008,0x0064)	ConversionType	CS
(0x0008,0x0070)	Manufacturer	LO
(0x0008,0x0080)	InstitutionName	LO
(0x0008,0x0090)	ReferringPhysicianName	PN
(0x0008,0x0201)	TimezoneOffsetFromUTC	SH
(0x0008,0x1030)	StudyDescription	LO
(0x0008,0x103e)	SeriesDescription	LO
(0x0008,0x1090)	ManufacturerModelName	LO

(0x0008,0x2111)	DerivationDescription	ST
(0x0010,0x0010)	PatientName	PN
(0x0010,0x0020)	PatientID	LO
(0x0010,0x0030)	PatientBirthDate	DA
(0x0010,0x0040)	PatientSex	CS
(0x0010,0x1010)	PatientAge	AS
(0x0018,0x0010)	ContrastBolusAgent	LO
(0x0018,0x0050)	SliceThickness	DS
(0x0018,0x0088)	SpacingBetweenSlices	DS
(0x0018,0x1009)	UniqueDeviceIdentifier	UT
(0x0018,0x100a)	UDISequence	SQ
(0x0018,0x1030)	ProtocolName	LO
(0x0018,0x2010)	NominalScannedPixelSpacing	DS
(0x0020,0x000d)	StudyInstanceUID	UI
(0x0020,0x000e)	SeriesInstanceUID	UI
(0x0020,0x0010)	StudyID	SH
(0x0020,0x0011)	SeriesNumber	IS
(0x0020,0x0013)	InstanceNumber	IS
(0x0020,0x0020)	PatientOrientation	CS
(0x0020,0x0032)	ImagePositionPatient	DS
(0x0020,0x0037)	ImageOrientationPatient	DS
(0x0020,0x0052)	FrameOfReferenceUID	UI
(0x0020,0x0105)	NumberOfTemporalPositions	IS
(0x0020,0x1002)	ImagesInAcquisition	IS
(0x0020,0x1041)	SliceLocation	DS
(0x0028,0x0002)	SamplesPerPixel	US
(0x0028,0x0004)	PhotometricInterpretation	CS
(0x0028,0x0006)	PlanarConfiguration	US
(0x0028,0x0010)	Rows	US
(0x0028,0x0011)	Columns	US
(0x0028,0x0030)	PixelSpacing	DS
(0x0028,0x0100)	BitsAllocated	US
(0x0028,0x0101)	BitsStored	US
(0x0028,0x0102)	HighBit	US

(0x0028,0x0103)	PixelRepresentation	US
(0x0028,0x1050)	WindowCenter	DS
(0x0028,0x1051)	WindowWidth	DS
(0x0028,0x1054)	RescaleType	LO
(0x0061,0x0010)	PrivateCreator	LO
(0x0061,0x1001)	CMN JSON Structure	OB
(0x7fe0,0x0010)	PixelData	OB
Series: cta-axial-maxip		
(0x0008,0x0005)	SpecificCharacterSet	CS
(0x0008,0x0008)	ImageType	CS
(0x0008,0x0016)	SOPClassUID	UI
(0x0008,0x0018)	SOPInstanceUID	UI
(0x0008,0x0020)	StudyDate	DA
(0x0008,0x0021)	SeriesDate	DA
(0x0008,0x0022)	AcquisitionDate	DA
(0x0008,0x002a)	AcquisitionDateTime	DT
(0x0008,0x0030)	StudyTime	TM
(0x0008,0x0031)	SeriesTime	TM
(0x0008,0x0032)	AcquisitionTime	TM
(0x0008,0x0050)	AccessionNumber	SH
(0x0008,0x0060)	Modality	CS
(0x0008,0x0070)	Manufacturer	LO
(0x0008,0x0080)	InstitutionName	LO
(0x0008,0x0090)	ReferringPhysicianName	PN
(0x0008,0x0201)	TimezoneOffsetFromUTC	SH
(0x0008,0x1030)	StudyDescription	LO
(0x0008,0x103e)	SeriesDescription	LO
(0x0008,0x1090)	ManufacturerModelName	LO
(0x0008,0x2111)	DerivationDescription	ST
(0x0010,0x0010)	PatientName	PN
(0x0010,0x0020)	PatientID	LO
(0x0010,0x0030)	PatientBirthDate	DA
(0x0010,0x0040)	PatientSex	CS
(0x0010,0x1010)	PatientAge	AS

(0x0018,0x0010)	ContrastBolusAgent	LO
(0x0018,0x0050)	SliceThickness	DS
(0x0018,0x0088)	SpacingBetweenSlices	DS
(0x0018,0x1009)	UniqueDeviceIdentifier	UT
(0x0018,0x100a)	UDISequence	SQ
(0x0018,0x1030)	ProtocolName	LO
(0x0020,0x000d)	StudyInstanceUID	UI
(0x0020,0x000e)	SeriesInstanceUID	UI
(0x0020,0x0010)	StudyID	SH
(0x0020,0x0011)	SeriesNumber	IS
(0x0020,0x0013)	InstanceNumber	IS
(0x0020,0x0032)	ImagePositionPatient	DS
(0x0020,0x0037)	ImageOrientationPatient	DS
(0x0020,0x0052)	FrameOfReferenceUID	UI
(0x0020,0x0105)	NumberOfTemporalPositions	IS
(0x0020,0x1002)	ImagesInAcquisition	IS
(0x0020,0x1041)	SliceLocation	DS
(0x0020,0x9128)	TemporalPositionIndex	UL
(0x0028,0x0002)	SamplesPerPixel	US
(0x0028,0x0004)	PhotometricInterpretation	CS
(0x0028,0x0010)	Rows	US
(0x0028,0x0011)	Columns	US
(0x0028,0x0030)	PixelSpacing	DS
(0x0028,0x0100)	BitsAllocated	US
(0x0028,0x0101)	BitsStored	US
(0x0028,0x0102)	HighBit	US
(0x0028,0x0103)	PixelRepresentation	US
(0x0028,0x0106)	SmallestImagePixelValue	US
(0x0028,0x0107)	LargestImagePixelValue	US
(0x0028,0x1050)	WindowCenter	DS
(0x0028,0x1051)	WindowWidth	DS
(0x0028,0x1052)	RescaleIntercept	DS
(0x0028,0x1053)	RescaleSlope	DS
(0x0028,0x1054)	RescaleType	LO

(0x0061,0x0010)	PrivateCreator	LO
(0x0061,0x1001)	CMN JSON Structure	OB
(0x7fe0,0x0010)	PixelData	OB
Series: cta-axial-sliding-maxip		
(0x0008,0x0005)	SpecificCharacterSet	CS
(0x0008,0x0008)	ImageType	CS
(0x0008,0x0016)	SOPClassUID	UI
(0x0008,0x0018)	SOPInstanceUID	UI
(0x0008,0x0020)	StudyDate	DA
(0x0008,0x0021)	SeriesDate	DA
(0x0008,0x0022)	AcquisitionDate	DA
(0x0008,0x002a)	AcquisitionDateTime	DT
(0x0008,0x0030)	StudyTime	TM
(0x0008,0x0031)	SeriesTime	TM
(0x0008,0x0032)	AcquisitionTime	TM
(0x0008,0x0050)	AccessionNumber	SH
(0x0008,0x0060)	Modality	CS
(0x0008,0x0070)	Manufacturer	LO
(0x0008,0x0080)	InstitutionName	LO
(0x0008,0x0090)	ReferringPhysicianName	PN
(0x0008,0x0201)	TimezoneOffsetFromUTC	SH
(0x0008,0x1030)	StudyDescription	LO
(0x0008,0x103e)	SeriesDescription	LO
(0x0008,0x1090)	ManufacturerModelName	LO
(0x0008,0x2111)	DerivationDescription	ST
(0x0010,0x0010)	PatientName	PN
(0x0010,0x0020)	PatientID	LO
(0x0010,0x0030)	PatientBirthDate	DA
(0x0010,0x0040)	PatientSex	CS
(0x0010,0x1010)	PatientAge	AS
(0x0018,0x0010)	ContrastBolusAgent	LO
(0x0018,0x0050)	SliceThickness	DS
(0x0018,0x0088)	SpacingBetweenSlices	DS
(0x0018,0x1009)	UniqueDeviceIdentifier	UT

(0x0018,0x100a)	UDISequence	SQ
(0x0018,0x1030)	ProtocolName	LO
(0x0020,0x000d)	StudyInstanceUID	UI
(0x0020,0x000e)	SeriesInstanceUID	UI
(0x0020,0x0010)	StudyID	SH
(0x0020,0x0011)	SeriesNumber	IS
(0x0020,0x0013)	InstanceNumber	IS
(0x0020,0x0032)	ImagePositionPatient	DS
(0x0020,0x0037)	ImageOrientationPatient	DS
(0x0020,0x0052)	FrameOfReferenceUID	UI
(0x0020,0x0105)	NumberOfTemporalPositions	IS
(0x0020,0x1002)	ImagesInAcquisition	IS
(0x0020,0x1041)	SliceLocation	DS
(0x0028,0x0002)	SamplesPerPixel	US
(0x0028,0x0004)	PhotometricInterpretation	CS
(0x0028,0x0010)	Rows	US
(0x0028,0x0011)	Columns	US
(0x0028,0x0030)	PixelSpacing	DS
(0x0028,0x0100)	BitsAllocated	US
(0x0028,0x0101)	BitsStored	US
(0x0028,0x0102)	HighBit	US
(0x0028,0x0103)	PixelRepresentation	US
(0x0028,0x0106)	SmallestImagePixelValue	US
(0x0028,0x0107)	LargestImagePixelValue	US
(0x0028,0x1050)	WindowCenter	DS
(0x0028,0x1051)	WindowWidth	DS
(0x0028,0x1052)	RescaleIntercept	DS
(0x0028,0x1053)	RescaleSlope	DS
(0x0028,0x1054)	RescaleType	LO
(0x0061,0x0010)	PrivateCreator	LO
(0x0061,0x1001)	CMN JSON Structure	OB
(0x7fe0,0x0010)	PixelData	OB
Series: cta-brain		
(0x0008,0x0005)	SpecificCharacterSet	CS

(0x0008,0x0008)	ImageType	CS
(0x0008,0x0016)	SOPClassUID	UI
(0x0008,0x0018)	SOPInstanceUID	UI
(0x0008,0x0020)	StudyDate	DA
(0x0008,0x0021)	SeriesDate	DA
(0x0008,0x0022)	AcquisitionDate	DA
(0x0008,0x002a)	AcquisitionDateTime	DT
(0x0008,0x0030)	StudyTime	TM
(0x0008,0x0031)	SeriesTime	TM
(0x0008,0x0032)	AcquisitionTime	TM
(0x0008,0x0050)	AccessionNumber	SH
(0x0008,0x0060)	Modality	CS
(0x0008,0x0070)	Manufacturer	LO
(0x0008,0x0080)	InstitutionName	LO
(0x0008,0x0090)	ReferringPhysicianName	PN
(0x0008,0x0201)	TimezoneOffsetFromUTC	SH
(0x0008,0x1030)	StudyDescription	LO
(0x0008,0x103e)	SeriesDescription	LO
(0x0008,0x1090)	ManufacturerModelName	LO
(0x0008,0x2111)	DerivationDescription	ST
(0x0010,0x0010)	PatientName	PN
(0x0010,0x0020)	PatientID	LO
(0x0010,0x0030)	PatientBirthDate	DA
(0x0010,0x0040)	PatientSex	CS
(0x0010,0x1010)	PatientAge	AS
(0x0018,0x0010)	ContrastBolusAgent	LO
(0x0018,0x0050)	SliceThickness	DS
(0x0018,0x0088)	SpacingBetweenSlices	DS
(0x0018,0x1009)	UniqueDeviceIdentifier	UT
(0x0018,0x100a)	UDISequence	SQ
(0x0018,0x1030)	ProtocolName	LO
(0x0020,0x000d)	StudyInstanceUID	UI
(0x0020,0x000e)	SeriesInstanceUID	UI
(0x0020,0x0010)	StudyID	SH

(0x0020,0x0011)	SeriesNumber	IS
(0x0020,0x0013)	InstanceNumber	IS
(0x0020,0x0032)	ImagePositionPatient	DS
(0x0020,0x0037)	ImageOrientationPatient	DS
(0x0020,0x0052)	FrameOfReferenceUID	UI
(0x0020,0x0105)	NumberOfTemporalPositions	IS
(0x0020,0x1002)	ImagesInAcquisition	IS
(0x0020,0x1041)	SliceLocation	DS
(0x0028,0x0002)	SamplesPerPixel	US
(0x0028,0x0004)	PhotometricInterpretation	CS
(0x0028,0x0010)	Rows	US
(0x0028,0x0011)	Columns	US
(0x0028,0x0030)	PixelSpacing	DS
(0x0028,0x0100)	BitsAllocated	US
(0x0028,0x0101)	BitsStored	US
(0x0028,0x0102)	HighBit	US
(0x0028,0x0103)	PixelRepresentation	US
(0x0028,0x0106)	SmallestImagePixelValue	US
(0x0028,0x0107)	LargestImagePixelValue	US
(0x0028,0x1050)	WindowCenter	DS
(0x0028,0x1051)	WindowWidth	DS
(0x0028,0x1052)	RescaleIntercept	DS
(0x0028,0x1053)	RescaleSlope	DS
(0x0028,0x1054)	RescaleType	LO
(0x0061,0x0010)	PrivateCreator	LO
(0x0061,0x1001)	CMN JSON Structure	OB
(0x7fe0,0x0010)	PixelData	OB
Series: cta-brain-and-skull		
(0x0008,0x0005)	SpecificCharacterSet	CS
(0x0008,0x0008)	ImageType	CS
(0x0008,0x0016)	SOPClassUID	UI
(0x0008,0x0018)	SOPInstanceUID	UI
(0x0008,0x0020)	StudyDate	DA
(0x0008,0x0021)	SeriesDate	DA

(0x0008,0x0022)	AcquisitionDate	DA
(0x0008,0x002a)	AcquisitionDateTime	DT
(0x0008,0x0030)	StudyTime	TM
(0x0008,0x0031)	SeriesTime	TM
(0x0008,0x0032)	AcquisitionTime	TM
(0x0008,0x0050)	AccessionNumber	SH
(0x0008,0x0060)	Modality	CS
(0x0008,0x0070)	Manufacturer	LO
(0x0008,0x0080)	InstitutionName	LO
(0x0008,0x0090)	ReferringPhysicianName	PN
(0x0008,0x0201)	TimezoneOffsetFromUTC	SH
(0x0008,0x1030)	StudyDescription	LO
(0x0008,0x103e)	SeriesDescription	LO
(0x0008,0x1090)	ManufacturerModelName	LO
(0x0008,0x2111)	DerivationDescription	ST
(0x0010,0x0010)	PatientName	PN
(0x0010,0x0020)	PatientID	LO
(0x0010,0x0030)	PatientBirthDate	DA
(0x0010,0x0040)	PatientSex	CS
(0x0010,0x1010)	PatientAge	AS
(0x0018,0x0010)	ContrastBolusAgent	LO
(0x0018,0x0050)	SliceThickness	DS
(0x0018,0x0088)	SpacingBetweenSlices	DS
(0x0018,0x1009)	UniqueDeviceIdentifier	UT
(0x0018,0x100a)	UDISequence	SQ
(0x0018,0x1030)	ProtocolName	LO
(0x0020,0x000d)	StudyInstanceUID	UI
(0x0020,0x000e)	SeriesInstanceUID	UI
(0x0020,0x0010)	StudyID	SH
(0x0020,0x0011)	SeriesNumber	IS
(0x0020,0x0013)	InstanceNumber	IS
(0x0020,0x0032)	ImagePositionPatient	DS
(0x0020,0x0037)	ImageOrientationPatient	DS
(0x0020,0x0052)	FrameOfReferenceUID	UI

(0x0020,0x0105)	NumberOfTemporalPositions	IS
(0x0020,0x1002)	ImagesInAcquisition	IS
(0x0020,0x1041)	SliceLocation	DS
(0x0028,0x0002)	SamplesPerPixel	US
(0x0028,0x0004)	PhotometricInterpretation	CS
(0x0028,0x0010)	Rows	US
(0x0028,0x0011)	Columns	US
(0x0028,0x0030)	PixelSpacing	DS
(0x0028,0x0100)	BitsAllocated	US
(0x0028,0x0101)	BitsStored	US
(0x0028,0x0102)	HighBit	US
(0x0028,0x0103)	PixelRepresentation	US
(0x0028,0x0106)	SmallestImagePixelValue	US
(0x0028,0x0107)	LargestImagePixelValue	US
(0x0028,0x1050)	WindowCenter	DS
(0x0028,0x1051)	WindowWidth	DS
(0x0028,0x1052)	RescaleIntercept	DS
(0x0028,0x1053)	RescaleSlope	DS
(0x0028,0x1054)	RescaleType	LO
(0x0061,0x0010)	PrivateCreator	LO
(0x0061,0x1001)	CMN JSON Structure	OB
(0x7fe0,0x0010)	PixelData	OB
Series: cta-coronal-lvo-detection		
(0x0008,0x0005)	SpecificCharacterSet	CS
(0x0008,0x0008)	ImageType	CS
(0x0008,0x0016)	SOPClassUID	UI
(0x0008,0x0018)	SOPInstanceUID	UI
(0x0008,0x0020)	StudyDate	DA
(0x0008,0x0021)	SeriesDate	DA
(0x0008,0x0022)	AcquisitionDate	DA
(0x0008,0x002a)	AcquisitionDateTime	DT
(0x0008,0x0030)	StudyTime	TM
(0x0008,0x0031)	SeriesTime	TM
(0x0008,0x0032)	AcquisitionTime	TM

(0x0008,0x0050)	AccessionNumber	SH
(0x0008,0x0060)	Modality	CS
(0x0008,0x0064)	ConversionType	CS
(0x0008,0x0070)	Manufacturer	LO
(0x0008,0x0080)	InstitutionName	LO
(0x0008,0x0090)	ReferringPhysicianName	PN
(0x0008,0x0201)	TimezoneOffsetFromUTC	SH
(0x0008,0x1030)	StudyDescription	LO
(0x0008,0x103e)	SeriesDescription	LO
(0x0008,0x1090)	ManufacturerModelName	LO
(0x0008,0x2111)	DerivationDescription	ST
(0x0010,0x0010)	PatientName	PN
(0x0010,0x0020)	PatientID	LO
(0x0010,0x0030)	PatientBirthDate	DA
(0x0010,0x0040)	PatientSex	CS
(0x0010,0x1010)	PatientAge	AS
(0x0018,0x0010)	ContrastBolusAgent	LO
(0x0018,0x0050)	SliceThickness	DS
(0x0018,0x0088)	SpacingBetweenSlices	DS
(0x0018,0x1009)	UniqueDeviceIdentifier	UT
(0x0018,0x100a)	UDISequence	SQ
(0x0018,0x1030)	ProtocolName	LO
(0x0018,0x2010)	NominalScannedPixelSpacing	DS
(0x0020,0x000d)	StudyInstanceUID	UI
(0x0020,0x000e)	SeriesInstanceUID	UI
(0x0020,0x0010)	StudyID	SH
(0x0020,0x0011)	SeriesNumber	IS
(0x0020,0x0013)	InstanceNumber	IS
(0x0020,0x0020)	PatientOrientation	CS
(0x0020,0x0032)	ImagePositionPatient	DS
(0x0020,0x0037)	ImageOrientationPatient	DS
(0x0020,0x0052)	FrameOfReferenceUID	UI
(0x0020,0x0105)	NumberOfTemporalPositions	IS
(0x0020,0x1002)	ImagesInAcquisition	IS

(0x0020,0x1041)	SliceLocation	DS
(0x0028,0x0002)	SamplesPerPixel	US
(0x0028,0x0004)	PhotometricInterpretation	CS
(0x0028,0x0006)	PlanarConfiguration	US
(0x0028,0x0010)	Rows	US
(0x0028,0x0011)	Columns	US
(0x0028,0x0030)	PixelSpacing	DS
(0x0028,0x0100)	BitsAllocated	US
(0x0028,0x0101)	BitsStored	US
(0x0028,0x0102)	HighBit	US
(0x0028,0x0103)	PixelRepresentation	US
(0x0028,0x1050)	WindowCenter	DS
(0x0028,0x1051)	WindowWidth	DS
(0x0028,0x1054)	RescaleType	LO
(0x0061,0x0010)	PrivateCreator	LO
(0x0061,0x1001)	CMN JSON Structure	OB
(0x7fe0,0x0010)	PixelData	OB
Series: cta-coronal-maxip		
(0x0008,0x0005)	SpecificCharacterSet	CS
(0x0008,0x0008)	ImageType	CS
(0x0008,0x0016)	SOPClassUID	UI
(0x0008,0x0018)	SOPInstanceUID	UI
(0x0008,0x0020)	StudyDate	DA
(0x0008,0x0021)	SeriesDate	DA
(0x0008,0x0022)	AcquisitionDate	DA
(0x0008,0x002a)	AcquisitionDateTime	DT
(0x0008,0x0030)	StudyTime	TM
(0x0008,0x0031)	SeriesTime	TM
(0x0008,0x0032)	AcquisitionTime	TM
(0x0008,0x0050)	AccessionNumber	SH
(0x0008,0x0060)	Modality	CS
(0x0008,0x0070)	Manufacturer	LO
(0x0008,0x0080)	InstitutionName	LO
(0x0008,0x0090)	ReferringPhysicianName	PN

(0x0008,0x0201)	TimezoneOffsetFromUTC	SH
(0x0008,0x1030)	StudyDescription	LO
(0x0008,0x103e)	SeriesDescription	LO
(0x0008,0x1090)	ManufacturerModelName	LO
(0x0008,0x2111)	DerivationDescription	ST
(0x0010,0x0010)	PatientName	PN
(0x0010,0x0020)	PatientID	LO
(0x0010,0x0030)	PatientBirthDate	DA
(0x0010,0x0040)	PatientSex	CS
(0x0010,0x1010)	PatientAge	AS
(0x0018,0x0010)	ContrastBolusAgent	LO
(0x0018,0x0050)	SliceThickness	DS
(0x0018,0x0088)	SpacingBetweenSlices	DS
(0x0018,0x1009)	UniqueDeviceIdentifier	UT
(0x0018,0x100a)	UDISequence	SQ
(0x0018,0x1030)	ProtocolName	LO
(0x0020,0x000d)	StudyInstanceUID	UI
(0x0020,0x000e)	SeriesInstanceUID	UI
(0x0020,0x0010)	StudyID	SH
(0x0020,0x0011)	SeriesNumber	IS
(0x0020,0x0013)	InstanceNumber	IS
(0x0020,0x0032)	ImagePositionPatient	DS
(0x0020,0x0037)	ImageOrientationPatient	DS
(0x0020,0x0052)	FrameOfReferenceUID	UI
(0x0020,0x0105)	NumberOfTemporalPositions	IS
(0x0020,0x1002)	ImagesInAcquisition	IS
(0x0020,0x1041)	SliceLocation	DS
(0x0020,0x9128)	TemporalPositionIndex	UL
(0x0028,0x0002)	SamplesPerPixel	US
(0x0028,0x0004)	PhotometricInterpretation	CS
(0x0028,0x0010)	Rows	US
(0x0028,0x0011)	Columns	US
(0x0028,0x0030)	PixelSpacing	DS
(0x0028,0x0100)	BitsAllocated	US

(0x0028,0x0101)	BitsStored	US
(0x0028,0x0102)	HighBit	US
(0x0028,0x0103)	PixelRepresentation	US
(0x0028,0x0106)	SmallestImagePixelValue	US
(0x0028,0x0107)	LargestImagePixelValue	US
(0x0028,0x1050)	WindowCenter	DS
(0x0028,0x1051)	WindowWidth	DS
(0x0028,0x1052)	RescaleIntercept	DS
(0x0028,0x1053)	RescaleSlope	DS
(0x0028,0x1054)	RescaleType	LO
(0x0061,0x0010)	PrivateCreator	LO
(0x0061,0x1001)	CMN JSON Structure	OB
(0x7fe0,0x0010)	PixelData	OB
Series: cta-horizontal-rotational-maxip		
(0x0008,0x0005)	SpecificCharacterSet	CS
(0x0008,0x0008)	ImageType	CS
(0x0008,0x0016)	SOPClassUID	UI
(0x0008,0x0018)	SOPInstanceUID	UI
(0x0008,0x0020)	StudyDate	DA
(0x0008,0x0021)	SeriesDate	DA
(0x0008,0x0022)	AcquisitionDate	DA
(0x0008,0x002a)	AcquisitionDateTime	DT
(0x0008,0x0030)	StudyTime	TM
(0x0008,0x0031)	SeriesTime	TM
(0x0008,0x0032)	AcquisitionTime	TM
(0x0008,0x0050)	AccessionNumber	SH
(0x0008,0x0060)	Modality	CS
(0x0008,0x0070)	Manufacturer	LO
(0x0008,0x0080)	InstitutionName	LO
(0x0008,0x0090)	ReferringPhysicianName	PN
(0x0008,0x0201)	TimezoneOffsetFromUTC	SH
(0x0008,0x1030)	StudyDescription	LO
(0x0008,0x103e)	SeriesDescription	LO
(0x0008,0x1090)	ManufacturerModelName	LO

(0x0008,0x2111)	DerivationDescription	ST
(0x0010,0x0010)	PatientName	PN
(0x0010,0x0020)	PatientID	LO
(0x0010,0x0030)	PatientBirthDate	DA
(0x0010,0x0040)	PatientSex	CS
(0x0010,0x1010)	PatientAge	AS
(0x0018,0x0010)	ContrastBolusAgent	LO
(0x0018,0x0050)	SliceThickness	DS
(0x0018,0x0088)	SpacingBetweenSlices	DS
(0x0018,0x1009)	UniqueDeviceIdentifier	UT
(0x0018,0x100a)	UDISequence	SQ
(0x0018,0x1030)	ProtocolName	LO
(0x0020,0x000d)	StudyInstanceUID	UI
(0x0020,0x000e)	SeriesInstanceUID	UI
(0x0020,0x0010)	StudyID	SH
(0x0020,0x0011)	SeriesNumber	IS
(0x0020,0x0013)	InstanceNumber	IS
(0x0020,0x0032)	ImagePositionPatient	DS
(0x0020,0x0037)	ImageOrientationPatient	DS
(0x0020,0x0052)	FrameOfReferenceUID	UI
(0x0020,0x0105)	NumberOfTemporalPositions	IS
(0x0020,0x1002)	ImagesInAcquisition	IS
(0x0020,0x1041)	SliceLocation	DS
(0x0020,0x9128)	TemporalPositionIndex	UL
(0x0028,0x0002)	SamplesPerPixel	US
(0x0028,0x0004)	PhotometricInterpretation	CS
(0x0028,0x0010)	Rows	US
(0x0028,0x0011)	Columns	US
(0x0028,0x0030)	PixelSpacing	DS
(0x0028,0x0100)	BitsAllocated	US
(0x0028,0x0101)	BitsStored	US
(0x0028,0x0102)	HighBit	US
(0x0028,0x0103)	PixelRepresentation	US
(0x0028,0x0106)	SmallestImagePixelValue	US

(0x0028,0x0107)	LargestImagePixelValue	US
(0x0028,0x1050)	WindowCenter	DS
(0x0028,0x1051)	WindowWidth	DS
(0x0028,0x1052)	RescaleIntercept	DS
(0x0028,0x1053)	RescaleSlope	DS
(0x0028,0x1054)	RescaleType	LO
(0x0061,0x0010)	PrivateCreator	LO
(0x0061,0x1001)	CMN JSON Structure	OB
(0x7fe0,0x0010)	PixelData	OB
Series: cta-lvo-ai-detection		
(0x0008,0x0005)	SpecificCharacterSet	CS
(0x0008,0x0008)	ImageType	CS
(0x0008,0x0016)	SOPClassUID	UI
(0x0008,0x0018)	SOPInstanceUID	UI
(0x0008,0x0020)	StudyDate	DA
(0x0008,0x0021)	SeriesDate	DA
(0x0008,0x0022)	AcquisitionDate	DA
(0x0008,0x002a)	AcquisitionDateTime	DT
(0x0008,0x0030)	StudyTime	TM
(0x0008,0x0031)	SeriesTime	TM
(0x0008,0x0032)	AcquisitionTime	TM
(0x0008,0x0050)	AccessionNumber	SH
(0x0008,0x0060)	Modality	CS
(0x0008,0x0064)	ConversionType	CS
(0x0008,0x0070)	Manufacturer	LO
(0x0008,0x0080)	InstitutionName	LO
(0x0008,0x0090)	ReferringPhysicianName	PN
(0x0008,0x0201)	TimezoneOffsetFromUTC	SH
(0x0008,0x1030)	StudyDescription	LO
(0x0008,0x103e)	SeriesDescription	LO
(0x0008,0x1090)	ManufacturerModelName	LO
(0x0008,0x2111)	DerivationDescription	ST
(0x0010,0x0010)	PatientName	PN
(0x0010,0x0020)	PatientID	LO

(0x0010,0x0030)	PatientBirthDate	DA
(0x0010,0x0040)	PatientSex	CS
(0x0010,0x1010)	PatientAge	AS
(0x0018,0x0010)	ContrastBolusAgent	LO
(0x0018,0x0050)	SliceThickness	DS
(0x0018,0x0088)	SpacingBetweenSlices	DS
(0x0018,0x1009)	UniqueDeviceIdentifier	UT
(0x0018,0x100a)	UDISequence	SQ
(0x0018,0x1030)	ProtocolName	LO
(0x0018,0x2010)	NominalScannedPixelSpacing	DS
(0x0020,0x000d)	StudyInstanceUID	UI
(0x0020,0x000e)	SeriesInstanceUID	UI
(0x0020,0x0010)	StudyID	SH
(0x0020,0x0011)	SeriesNumber	IS
(0x0020,0x0013)	InstanceNumber	IS
(0x0020,0x0020)	PatientOrientation	CS
(0x0020,0x0032)	ImagePositionPatient	DS
(0x0020,0x0037)	ImageOrientationPatient	DS
(0x0020,0x0052)	FrameOfReferenceUID	UI
(0x0020,0x0105)	NumberOfTemporalPositions	IS
(0x0020,0x1002)	ImagesInAcquisition	IS
(0x0020,0x1041)	SliceLocation	DS
(0x0028,0x0002)	SamplesPerPixel	US
(0x0028,0x0004)	PhotometricInterpretation	CS
(0x0028,0x0006)	PlanarConfiguration	US
(0x0028,0x0010)	Rows	US
(0x0028,0x0011)	Columns	US
(0x0028,0x0030)	PixelSpacing	DS
(0x0028,0x0100)	BitsAllocated	US
(0x0028,0x0101)	BitsStored	US
(0x0028,0x0102)	HighBit	US
(0x0028,0x0103)	PixelRepresentation	US
(0x0028,0x1050)	WindowCenter	DS
(0x0028,0x1051)	WindowWidth	DS

(0x0028,0x1054)	RescaleType	LO
(0x0061,0x0010)	PrivateCreator	LO
(0x0061,0x1001)	CMN JSON Structure	OB
(0x7fe0,0x0010)	PixelData	OB
Series: cta-lvo-ai-detection-projection		
(0x0008,0x0005)	SpecificCharacterSet	CS
(0x0008,0x0008)	ImageType	CS
(0x0008,0x0016)	SOPClassUID	UI
(0x0008,0x0018)	SOPInstanceUID	UI
(0x0008,0x0020)	StudyDate	DA
(0x0008,0x0021)	SeriesDate	DA
(0x0008,0x0022)	AcquisitionDate	DA
(0x0008,0x002a)	AcquisitionDateTime	DT
(0x0008,0x0030)	StudyTime	TM
(0x0008,0x0031)	SeriesTime	TM
(0x0008,0x0032)	AcquisitionTime	TM
(0x0008,0x0050)	AccessionNumber	SH
(0x0008,0x0060)	Modality	CS
(0x0008,0x0064)	ConversionType	CS
(0x0008,0x0070)	Manufacturer	LO
(0x0008,0x0080)	InstitutionName	LO
(0x0008,0x0090)	ReferringPhysicianName	PN
(0x0008,0x0201)	TimezoneOffsetFromUTC	SH
(0x0008,0x1030)	StudyDescription	LO
(0x0008,0x103e)	SeriesDescription	LO
(0x0008,0x1090)	ManufacturerModelName	LO
(0x0008,0x2111)	DerivationDescription	ST
(0x0010,0x0010)	PatientName	PN
(0x0010,0x0020)	PatientID	LO
(0x0010,0x0030)	PatientBirthDate	DA
(0x0010,0x0040)	PatientSex	CS
(0x0010,0x1010)	PatientAge	AS
(0x0018,0x0010)	ContrastBolusAgent	LO
(0x0018,0x0050)	SliceThickness	DS

(0x0018,0x0088)	SpacingBetweenSlices	DS
(0x0018,0x1009)	UniqueDeviceIdentifier	UT
(0x0018,0x100a)	UDISequence	SQ
(0x0018,0x1030)	ProtocolName	LO
(0x0018,0x2010)	NominalScannedPixelSpacing	DS
(0x0020,0x000d)	StudyInstanceUID	UI
(0x0020,0x000e)	SeriesInstanceUID	UI
(0x0020,0x0010)	StudyID	SH
(0x0020,0x0011)	SeriesNumber	IS
(0x0020,0x0013)	InstanceNumber	IS
(0x0020,0x0020)	PatientOrientation	CS
(0x0020,0x0032)	ImagePositionPatient	DS
(0x0020,0x0037)	ImageOrientationPatient	DS
(0x0020,0x0052)	FrameOfReferenceUID	UI
(0x0020,0x0105)	NumberOfTemporalPositions	IS
(0x0020,0x1002)	ImagesInAcquisition	IS
(0x0020,0x1041)	SliceLocation	DS
(0x0028,0x0002)	SamplesPerPixel	US
(0x0028,0x0004)	PhotometricInterpretation	CS
(0x0028,0x0006)	PlanarConfiguration	US
(0x0028,0x0010)	Rows	US
(0x0028,0x0011)	Columns	US
(0x0028,0x0030)	PixelSpacing	DS
(0x0028,0x0100)	BitsAllocated	US
(0x0028,0x0101)	BitsStored	US
(0x0028,0x0102)	HighBit	US
(0x0028,0x0103)	PixelRepresentation	US
(0x0028,0x1050)	WindowCenter	DS
(0x0028,0x1051)	WindowWidth	DS
(0x0028,0x1054)	RescaleType	LO
(0x0061,0x0010)	PrivateCreator	LO
(0x0061,0x1001)	CMN JSON Structure	OB
(0x7fe0,0x0010)	PixelData	OB
Series: cta-lvo-detection		

(0x0008,0x0005)	SpecificCharacterSet	CS
(0x0008,0x0008)	ImageType	CS
(0x0008,0x0016)	SOPClassUID	UI
(0x0008,0x0018)	SOPInstanceUID	UI
(0x0008,0x0020)	StudyDate	DA
(0x0008,0x0021)	SeriesDate	DA
(0x0008,0x0022)	AcquisitionDate	DA
(0x0008,0x002a)	AcquisitionDateTime	DT
(0x0008,0x0030)	StudyTime	TM
(0x0008,0x0031)	SeriesTime	TM
(0x0008,0x0032)	AcquisitionTime	TM
(0x0008,0x0050)	AccessionNumber	SH
(0x0008,0x0060)	Modality	CS
(0x0008,0x0064)	ConversionType	CS
(0x0008,0x0070)	Manufacturer	LO
(0x0008,0x0080)	InstitutionName	LO
(0x0008,0x0090)	ReferringPhysicianName	PN
(0x0008,0x0201)	TimezoneOffsetFromUTC	SH
(0x0008,0x1030)	StudyDescription	LO
(0x0008,0x103e)	SeriesDescription	LO
(0x0008,0x1090)	ManufacturerModelName	LO
(0x0008,0x2111)	DerivationDescription	ST
(0x0010,0x0010)	PatientName	PN
(0x0010,0x0020)	PatientID	LO
(0x0010,0x0030)	PatientBirthDate	DA
(0x0010,0x0040)	PatientSex	CS
(0x0010,0x1010)	PatientAge	AS
(0x0018,0x0010)	ContrastBolusAgent	LO
(0x0018,0x0050)	SliceThickness	DS
(0x0018,0x0088)	SpacingBetweenSlices	DS
(0x0018,0x1009)	UniqueDeviceIdentifier	UT
(0x0018,0x100a)	UDISequence	SQ
(0x0018,0x1030)	ProtocolName	LO
(0x0018,0x2010)	NominalScannedPixelSpacing	DS

(0x0020,0x000d)	StudyInstanceUID	UI
(0x0020,0x000e)	SeriesInstanceUID	UI
(0x0020,0x0010)	StudyID	SH
(0x0020,0x0011)	SeriesNumber	IS
(0x0020,0x0013)	InstanceNumber	IS
(0x0020,0x0020)	PatientOrientation	CS
(0x0020,0x0032)	ImagePositionPatient	DS
(0x0020,0x0037)	ImageOrientationPatient	DS
(0x0020,0x0052)	FrameOfReferenceUID	UI
(0x0020,0x0105)	NumberOfTemporalPositions	IS
(0x0020,0x1002)	ImagesInAcquisition	IS
(0x0020,0x1041)	SliceLocation	DS
(0x0028,0x0002)	SamplesPerPixel	US
(0x0028,0x0004)	PhotometricInterpretation	CS
(0x0028,0x0006)	PlanarConfiguration	US
(0x0028,0x0010)	Rows	US
(0x0028,0x0011)	Columns	US
(0x0028,0x0030)	PixelSpacing	DS
(0x0028,0x0100)	BitsAllocated	US
(0x0028,0x0101)	BitsStored	US
(0x0028,0x0102)	HighBit	US
(0x0028,0x0103)	PixelRepresentation	US
(0x0028,0x1050)	WindowCenter	DS
(0x0028,0x1051)	WindowWidth	DS
(0x0028,0x1054)	RescaleType	LO
(0x0061,0x0010)	PrivateCreator	LO
(0x0061,0x1001)	CMN JSON Structure	OB
(0x7fe0,0x0010)	PixelData	OB
Series: cta-sagittal-maxip		
(0x0008,0x0005)	SpecificCharacterSet	CS
(0x0008,0x0008)	ImageType	CS
(0x0008,0x0016)	SOPClassUID	UI
(0x0008,0x0018)	SOPInstanceUID	UI
(0x0008,0x0020)	StudyDate	DA

(0x0008,0x0021)	SeriesDate	DA
(0x0008,0x0022)	AcquisitionDate	DA
(0x0008,0x002a)	AcquisitionDateTime	DT
(0x0008,0x0030)	StudyTime	TM
(0x0008,0x0031)	SeriesTime	TM
(0x0008,0x0032)	AcquisitionTime	TM
(0x0008,0x0050)	AccessionNumber	SH
(0x0008,0x0060)	Modality	CS
(0x0008,0x0070)	Manufacturer	LO
(0x0008,0x0080)	InstitutionName	LO
(0x0008,0x0090)	ReferringPhysicianName	PN
(0x0008,0x0201)	TimezoneOffsetFromUTC	SH
(0x0008,0x1030)	StudyDescription	LO
(0x0008,0x103e)	SeriesDescription	LO
(0x0008,0x1090)	ManufacturerModelName	LO
(0x0008,0x2111)	DerivationDescription	ST
(0x0010,0x0010)	PatientName	PN
(0x0010,0x0020)	PatientID	LO
(0x0010,0x0030)	PatientBirthDate	DA
(0x0010,0x0040)	PatientSex	CS
(0x0010,0x1010)	PatientAge	AS
(0x0018,0x0010)	ContrastBolusAgent	LO
(0x0018,0x0050)	SliceThickness	DS
(0x0018,0x0088)	SpacingBetweenSlices	DS
(0x0018,0x1009)	UniqueDeviceIdentifier	UT
(0x0018,0x100a)	UDISequence	SQ
(0x0018,0x1030)	ProtocolName	LO
(0x0020,0x000d)	StudyInstanceUID	UI
(0x0020,0x000e)	SeriesInstanceUID	UI
(0x0020,0x0010)	StudyID	SH
(0x0020,0x0011)	SeriesNumber	IS
(0x0020,0x0013)	InstanceNumber	IS
(0x0020,0x0032)	ImagePositionPatient	DS
(0x0020,0x0037)	ImageOrientationPatient	DS

(0x0020,0x0052)	FrameOfReferenceUID	UI
(0x0020,0x0105)	NumberOfTemporalPositions	IS
(0x0020,0x1002)	ImagesInAcquisition	IS
(0x0020,0x1041)	SliceLocation	DS
(0x0020,0x9128)	TemporalPositionIndex	UL
(0x0028,0x0002)	SamplesPerPixel	US
(0x0028,0x0004)	PhotometricInterpretation	CS
(0x0028,0x0010)	Rows	US
(0x0028,0x0011)	Columns	US
(0x0028,0x0030)	PixelSpacing	DS
(0x0028,0x0100)	BitsAllocated	US
(0x0028,0x0101)	BitsStored	US
(0x0028,0x0102)	HighBit	US
(0x0028,0x0103)	PixelRepresentation	US
(0x0028,0x0106)	SmallestImagePixelValue	US
(0x0028,0x0107)	LargestImagePixelValue	US
(0x0028,0x1050)	WindowCenter	DS
(0x0028,0x1051)	WindowWidth	DS
(0x0028,0x1052)	RescaleIntercept	DS
(0x0028,0x1053)	RescaleSlope	DS
(0x0028,0x1054)	RescaleType	LO
(0x0061,0x0010)	PrivateCreator	LO
(0x0061,0x1001)	CMN JSON Structure	OB
(0x7fe0,0x0010)	PixelData	OB
Series: cta-vertical-rotational-maxip		
(0x0008,0x0005)	SpecificCharacterSet	CS
(0x0008,0x0008)	ImageType	CS
(0x0008,0x0016)	SOPClassUID	UI
(0x0008,0x0018)	SOPInstanceUID	UI
(0x0008,0x0020)	StudyDate	DA
(0x0008,0x0021)	SeriesDate	DA
(0x0008,0x0022)	AcquisitionDate	DA
(0x0008,0x002a)	AcquisitionDateTime	DT
(0x0008,0x0030)	StudyTime	TM

(0x0008,0x0031)	SeriesTime	TM
(0x0008,0x0032)	AcquisitionTime	TM
(0x0008,0x0050)	AccessionNumber	SH
(0x0008,0x0060)	Modality	CS
(0x0008,0x0070)	Manufacturer	LO
(0x0008,0x0080)	InstitutionName	LO
(0x0008,0x0090)	ReferringPhysicianName	PN
(0x0008,0x0201)	TimezoneOffsetFromUTC	SH
(0x0008,0x1030)	StudyDescription	LO
(0x0008,0x103e)	SeriesDescription	LO
(0x0008,0x1090)	ManufacturerModelName	LO
(0x0008,0x2111)	DerivationDescription	ST
(0x0010,0x0010)	PatientName	PN
(0x0010,0x0020)	PatientID	LO
(0x0010,0x0030)	PatientBirthDate	DA
(0x0010,0x0040)	PatientSex	CS
(0x0010,0x1010)	PatientAge	AS
(0x0018,0x0010)	ContrastBolusAgent	LO
(0x0018,0x0050)	SliceThickness	DS
(0x0018,0x0088)	SpacingBetweenSlices	DS
(0x0018,0x1009)	UniqueDeviceIdentifier	UT
(0x0018,0x100a)	UDISequence	SQ
(0x0018,0x1030)	ProtocolName	LO
(0x0020,0x000d)	StudyInstanceUID	UI
(0x0020,0x000e)	SeriesInstanceUID	UI
(0x0020,0x0010)	StudyID	SH
(0x0020,0x0011)	SeriesNumber	IS
(0x0020,0x0013)	InstanceNumber	IS
(0x0020,0x0032)	ImagePositionPatient	DS
(0x0020,0x0037)	ImageOrientationPatient	DS
(0x0020,0x0052)	FrameOfReferenceUID	UI
(0x0020,0x0105)	NumberOfTemporalPositions	IS
(0x0020,0x1002)	ImagesInAcquisition	IS
(0x0020,0x1041)	SliceLocation	DS

(0x0020,0x9128)	TemporalPositionIndex	UL
(0x0028,0x0002)	SamplesPerPixel	US
(0x0028,0x0004)	PhotometricInterpretation	CS
(0x0028,0x0010)	Rows	US
(0x0028,0x0011)	Columns	US
(0x0028,0x0030)	PixelSpacing	DS
(0x0028,0x0100)	BitsAllocated	US
(0x0028,0x0101)	BitsStored	US
(0x0028,0x0102)	HighBit	US
(0x0028,0x0103)	PixelRepresentation	US
(0x0028,0x0106)	SmallestImagePixelValue	US
(0x0028,0x0107)	LargestImagePixelValue	US
(0x0028,0x1050)	WindowCenter	DS
(0x0028,0x1051)	WindowWidth	DS
(0x0028,0x1052)	RescaleIntercept	DS
(0x0028,0x1053)	RescaleSlope	DS
(0x0028,0x1054)	RescaleType	LO
(0x0061,0x0010)	PrivateCreator	LO
(0x0061,0x1001)	CMN JSON Structure	OB
(0x7fe0,0x0010)	PixelData	OB
Series: ctp-brain-mask		
(0x0008,0x0005)	SpecificCharacterSet	CS
(0x0008,0x0008)	ImageType	CS
(0x0008,0x0016)	SOPClassUID	UI
(0x0008,0x0018)	SOPInstanceUID	UI
(0x0008,0x0020)	StudyDate	DA
(0x0008,0x0021)	SeriesDate	DA
(0x0008,0x0022)	AcquisitionDate	DA
(0x0008,0x002a)	AcquisitionDateTime	DT
(0x0008,0x0030)	StudyTime	TM
(0x0008,0x0031)	SeriesTime	TM
(0x0008,0x0032)	AcquisitionTime	TM
(0x0008,0x0050)	AccessionNumber	SH
(0x0008,0x0060)	Modality	CS

(0x0008,0x0070)	Manufacturer	LO
(0x0008,0x0080)	InstitutionName	LO
(0x0008,0x0090)	ReferringPhysicianName	PN
(0x0008,0x0201)	TimezoneOffsetFromUTC	SH
(0x0008,0x1010)	StationName	SH
(0x0008,0x1030)	StudyDescription	LO
(0x0008,0x103e)	SeriesDescription	LO
(0x0008,0x1090)	ManufacturerModelName	LO
(0x0008,0x2111)	DerivationDescription	ST
(0x0010,0x0010)	PatientName	PN
(0x0010,0x0020)	PatientID	LO
(0x0010,0x0030)	PatientBirthDate	DA
(0x0010,0x0040)	PatientSex	CS
(0x0010,0x1010)	PatientAge	AS
(0x0018,0x0010)	ContrastBolusAgent	LO
(0x0018,0x0050)	SliceThickness	DS
(0x0018,0x0088)	SpacingBetweenSlices	DS
(0x0018,0x1009)	UniqueDeviceIdentifier	UT
(0x0018,0x100a)	UDISequence	SQ
(0x0018,0x1030)	ProtocolName	LO
(0x0020,0x000d)	StudyInstanceUID	UI
(0x0020,0x000e)	SeriesInstanceUID	UI
(0x0020,0x0010)	StudyID	SH
(0x0020,0x0011)	SeriesNumber	IS
(0x0020,0x0013)	InstanceNumber	IS
(0x0020,0x0032)	ImagePositionPatient	DS
(0x0020,0x0037)	ImageOrientationPatient	DS
(0x0020,0x0052)	FrameOfReferenceUID	UI
(0x0020,0x0105)	NumberOfTemporalPositions	IS
(0x0020,0x1002)	ImagesInAcquisition	IS
(0x0020,0x1041)	SliceLocation	DS
(0x0028,0x0002)	SamplesPerPixel	US
(0x0028,0x0004)	PhotometricInterpretation	CS
(0x0028,0x0010)	Rows	US

(0x0028,0x0011)	Columns	US
(0x0028,0x0030)	PixelSpacing	DS
(0x0028,0x0100)	BitsAllocated	US
(0x0028,0x0101)	BitsStored	US
(0x0028,0x0102)	HighBit	US
(0x0028,0x0103)	PixelRepresentation	US
(0x0028,0x0106)	SmallestImagePixelValue	US
(0x0028,0x0107)	LargestImagePixelValue	US
(0x0028,0x1050)	WindowCenter	DS
(0x0028,0x1051)	WindowWidth	DS
(0x0028,0x1052)	RescaleIntercept	DS
(0x0028,0x1053)	RescaleSlope	DS
(0x0028,0x1054)	RescaleType	LO
(0x0061,0x0010)	PrivateCreator	LO
(0x0061,0x1001)	CMN JSON Structure	OB
(0x7fe0,0x0010)	PixelData	OB
Series: glioma		
(0x0008,0x0008)	ImageType	CS
(0x0008,0x0016)	SOPClassUID	UI
(0x0008,0x0018)	SOPInstanceUID	UI
(0x0008,0x0020)	StudyDate	DA
(0x0008,0x0021)	SeriesDate	DA
(0x0008,0x0022)	AcquisitionDate	DA
(0x0008,0x0030)	StudyTime	TM
(0x0008,0x0031)	SeriesTime	TM
(0x0008,0x0032)	AcquisitionTime	TM
(0x0008,0x0050)	AccessionNumber	SH
(0x0008,0x0060)	Modality	CS
(0x0008,0x0064)	ConversionType	CS
(0x0008,0x0070)	Manufacturer	LO
(0x0008,0x0090)	ReferringPhysicianName	PN
(0x0008,0x0201)	TimezoneOffsetFromUTC	SH
(0x0008,0x1010)	StationName	SH
(0x0008,0x1030)	StudyDescription	LO

(0x0008,0x103e)	SeriesDescription	LO
(0x0008,0x1040)	InstitutionalDepartmentName	LO
(0x0008,0x1090)	ManufacturerModelName	LO
(0x0008,0x2111)	DerivationDescription	ST
(0x0010,0x0010)	PatientName	PN
(0x0010,0x0020)	PatientID	LO
(0x0010,0x0030)	PatientBirthDate	DA
(0x0010,0x0040)	PatientSex	CS
(0x0010,0x1010)	PatientAge	AS
(0x0018,0x0050)	SliceThickness	DS
(0x0018,0x0080)	RepetitionTime	DS
(0x0018,0x0081)	EchoTime	DS
(0x0018,0x0082)	InversionTime	DS
(0x0018,0x0088)	SpacingBetweenSlices	DS
(0x0018,0x1009)	UniqueDeviceIdentifier	UT
(0x0018,0x100a)	UDISequence	SQ
(0x0018,0x1030)	ProtocolName	LO
(0x0018,0x1314)	FlipAngle	DS
(0x0018,0x2010)	NominalScannedPixelSpacing	DS
(0x0020,0x000d)	StudyInstanceUID	UI
(0x0020,0x000e)	SeriesInstanceUID	UI
(0x0020,0x0010)	StudyID	SH
(0x0020,0x0011)	SeriesNumber	IS
(0x0020,0x0013)	InstanceNumber	IS
(0x0020,0x0020)	PatientOrientation	CS
(0x0020,0x0032)	ImagePositionPatient	DS
(0x0020,0x0037)	ImageOrientationPatient	DS
(0x0020,0x0052)	FrameOfReferenceUID	UI
(0x0020,0x0105)	NumberOfTemporalPositions	IS
(0x0020,0x1002)	ImagesInAcquisition	IS
(0x0020,0x1041)	SliceLocation	DS
(0x0028,0x0002)	SamplesPerPixel	US
(0x0028,0x0004)	PhotometricInterpretation	CS
(0x0028,0x0006)	PlanarConfiguration	US

(0x0028,0x0010)	Rows	US
(0x0028,0x0011)	Columns	US
(0x0028,0x0030)	PixelSpacing	DS
(0x0028,0x0100)	BitsAllocated	US
(0x0028,0x0101)	BitsStored	US
(0x0028,0x0102)	HighBit	US
(0x0028,0x0103)	PixelRepresentation	US
(0x0028,0x1050)	WindowCenter	DS
(0x0028,0x1051)	WindowWidth	DS
(0x0028,0x1054)	RescaleType	LO
(0x0061,0x0010)	PrivateCreator	LO
(0x0061,0x1001)	CMN JSON Structure	OB
(0x7fe0,0x0010)	PixelData	OB
Series: glioma-edema		
(0x0008,0x0008)	ImageType	CS
(0x0008,0x0016)	SOPClassUID	UI
(0x0008,0x0018)	SOPInstanceUID	UI
(0x0008,0x0020)	StudyDate	DA
(0x0008,0x0021)	SeriesDate	DA
(0x0008,0x0022)	AcquisitionDate	DA
(0x0008,0x0030)	StudyTime	TM
(0x0008,0x0031)	SeriesTime	TM
(0x0008,0x0032)	AcquisitionTime	TM
(0x0008,0x0050)	AccessionNumber	SH
(0x0008,0x0060)	Modality	CS
(0x0008,0x0064)	ConversionType	CS
(0x0008,0x0070)	Manufacturer	LO
(0x0008,0x0090)	ReferringPhysicianName	PN
(0x0008,0x0201)	TimezoneOffsetFromUTC	SH
(0x0008,0x1010)	StationName	SH
(0x0008,0x1030)	StudyDescription	LO
(0x0008,0x103e)	SeriesDescription	LO
(0x0008,0x1040)	InstitutionalDepartmentName	LO
(0x0008,0x1090)	ManufacturerModelName	LO

(0x0008,0x2111)	DerivationDescription	ST
(0x0010,0x0010)	PatientName	PN
(0x0010,0x0020)	PatientID	LO
(0x0010,0x0030)	PatientBirthDate	DA
(0x0010,0x0040)	PatientSex	CS
(0x0010,0x1010)	PatientAge	AS
(0x0018,0x0050)	SliceThickness	DS
(0x0018,0x0080)	RepetitionTime	DS
(0x0018,0x0081)	EchoTime	DS
(0x0018,0x0082)	InversionTime	DS
(0x0018,0x0088)	SpacingBetweenSlices	DS
(0x0018,0x1009)	UniqueDeviceIdentifier	UT
(0x0018,0x100a)	UDISequence	SQ
(0x0018,0x1030)	ProtocolName	LO
(0x0018,0x1314)	FlipAngle	DS
(0x0018,0x2010)	NominalScannedPixelSpacing	DS
(0x0020,0x000d)	StudyInstanceUID	UI
(0x0020,0x000e)	SeriesInstanceUID	UI
(0x0020,0x0010)	StudyID	SH
(0x0020,0x0011)	SeriesNumber	IS
(0x0020,0x0013)	InstanceNumber	IS
(0x0020,0x0020)	PatientOrientation	CS
(0x0020,0x0032)	ImagePositionPatient	DS
(0x0020,0x0037)	ImageOrientationPatient	DS
(0x0020,0x0052)	FrameOfReferenceUID	UI
(0x0020,0x0105)	NumberOfTemporalPositions	IS
(0x0020,0x1002)	ImagesInAcquisition	IS
(0x0020,0x1041)	SliceLocation	DS
(0x0028,0x0002)	SamplesPerPixel	US
(0x0028,0x0004)	PhotometricInterpretation	CS
(0x0028,0x0006)	PlanarConfiguration	US
(0x0028,0x0010)	Rows	US
(0x0028,0x0011)	Columns	US
(0x0028,0x0030)	PixelSpacing	DS

(0x0028,0x0100)	BitsAllocated	US
(0x0028,0x0101)	BitsStored	US
(0x0028,0x0102)	HighBit	US
(0x0028,0x0103)	PixelRepresentation	US
(0x0028,0x1050)	WindowCenter	DS
(0x0028,0x1051)	WindowWidth	DS
(0x0028,0x1054)	RescaleType	LO
(0x0061,0x0010)	PrivateCreator	LO
(0x0061,0x1001)	CMN JSON Structure	OB
(0x7fe0,0x0010)	PixelData	OB
Series: glioma-enhancing		
(0x0008,0x0008)	ImageType	CS
(0x0008,0x0016)	SOPClassUID	UI
(0x0008,0x0018)	SOPInstanceUID	UI
(0x0008,0x0020)	StudyDate	DA
(0x0008,0x0021)	SeriesDate	DA
(0x0008,0x0022)	AcquisitionDate	DA
(0x0008,0x0030)	StudyTime	TM
(0x0008,0x0031)	SeriesTime	TM
(0x0008,0x0032)	AcquisitionTime	TM
(0x0008,0x0050)	AccessionNumber	SH
(0x0008,0x0060)	Modality	CS
(0x0008,0x0064)	ConversionType	CS
(0x0008,0x0070)	Manufacturer	LO
(0x0008,0x0090)	ReferringPhysicianName	PN
(0x0008,0x0201)	TimezoneOffsetFromUTC	SH
(0x0008,0x1010)	StationName	SH
(0x0008,0x1030)	StudyDescription	LO
(0x0008,0x103e)	SeriesDescription	LO
(0x0008,0x1040)	InstitutionalDepartmentName	LO
(0x0008,0x1090)	ManufacturerModelName	LO
(0x0008,0x2111)	DerivationDescription	ST
(0x0010,0x0010)	PatientName	PN
(0x0010,0x0020)	PatientID	LO

(0x0010,0x0030)	PatientBirthDate	DA
(0x0010,0x0040)	PatientSex	CS
(0x0010,0x1010)	PatientAge	AS
(0x0018,0x0050)	SliceThickness	DS
(0x0018,0x0080)	RepetitionTime	DS
(0x0018,0x0081)	EchoTime	DS
(0x0018,0x0082)	InversionTime	DS
(0x0018,0x0088)	SpacingBetweenSlices	DS
(0x0018,0x1009)	UniqueDeviceIdentifier	UT
(0x0018,0x100a)	UDISequence	SQ
(0x0018,0x1030)	ProtocolName	LO
(0x0018,0x1314)	FlipAngle	DS
(0x0018,0x2010)	NominalScannedPixelSpacing	DS
(0x0020,0x000d)	StudyInstanceUID	UI
(0x0020,0x000e)	SeriesInstanceUID	UI
(0x0020,0x0010)	StudyID	SH
(0x0020,0x0011)	SeriesNumber	IS
(0x0020,0x0013)	InstanceNumber	IS
(0x0020,0x0020)	PatientOrientation	CS
(0x0020,0x0032)	ImagePositionPatient	DS
(0x0020,0x0037)	ImageOrientationPatient	DS
(0x0020,0x0052)	FrameOfReferenceUID	UI
(0x0020,0x0105)	NumberOfTemporalPositions	IS
(0x0020,0x1002)	ImagesInAcquisition	IS
(0x0020,0x1041)	SliceLocation	DS
(0x0028,0x0002)	SamplesPerPixel	US
(0x0028,0x0004)	PhotometricInterpretation	CS
(0x0028,0x0006)	PlanarConfiguration	US
(0x0028,0x0010)	Rows	US
(0x0028,0x0011)	Columns	US
(0x0028,0x0030)	PixelSpacing	DS
(0x0028,0x0100)	BitsAllocated	US
(0x0028,0x0101)	BitsStored	US
(0x0028,0x0102)	HighBit	US

(0x0028,0x0103)	PixelRepresentation	US
(0x0028,0x1050)	WindowCenter	DS
(0x0028,0x1051)	WindowWidth	DS
(0x0028,0x1054)	RescaleType	LO
(0x0061,0x0010)	PrivateCreator	LO
(0x0061,0x1001)	CMN JSON Structure	OB
(0x7fe0,0x0010)	PixelData	OB
Series: glioma-necrosis		
(0x0008,0x0008)	ImageType	CS
(0x0008,0x0016)	SOPClassUID	UI
(0x0008,0x0018)	SOPInstanceUID	UI
(0x0008,0x0020)	StudyDate	DA
(0x0008,0x0021)	SeriesDate	DA
(0x0008,0x0022)	AcquisitionDate	DA
(0x0008,0x0030)	StudyTime	TM
(0x0008,0x0031)	SeriesTime	TM
(0x0008,0x0032)	AcquisitionTime	TM
(0x0008,0x0050)	AccessionNumber	SH
(0x0008,0x0060)	Modality	CS
(0x0008,0x0064)	ConversionType	CS
(0x0008,0x0070)	Manufacturer	LO
(0x0008,0x0090)	ReferringPhysicianName	PN
(0x0008,0x0201)	TimezoneOffsetFromUTC	SH
(0x0008,0x1010)	StationName	SH
(0x0008,0x1030)	StudyDescription	LO
(0x0008,0x103e)	SeriesDescription	LO
(0x0008,0x1040)	InstitutionalDepartmentName	LO
(0x0008,0x1090)	ManufacturerModelName	LO
(0x0008,0x2111)	DerivationDescription	ST
(0x0010,0x0010)	PatientName	PN
(0x0010,0x0020)	PatientID	LO
(0x0010,0x0030)	PatientBirthDate	DA
(0x0010,0x0040)	PatientSex	CS
(0x0010,0x1010)	PatientAge	AS

(0x0018,0x0050)	SliceThickness	DS
(0x0018,0x0080)	RepetitionTime	DS
(0x0018,0x0081)	EchoTime	DS
(0x0018,0x0082)	InversionTime	DS
(0x0018,0x0088)	SpacingBetweenSlices	DS
(0x0018,0x1009)	UniqueDeviceIdentifier	UT
(0x0018,0x100a)	UDISequence	SQ
(0x0018,0x1030)	ProtocolName	LO
(0x0018,0x1314)	FlipAngle	DS
(0x0018,0x2010)	NominalScannedPixelSpacing	DS
(0x0020,0x000d)	StudyInstanceUID	UI
(0x0020,0x000e)	SeriesInstanceUID	UI
(0x0020,0x0010)	StudyID	SH
(0x0020,0x0011)	SeriesNumber	IS
(0x0020,0x0013)	InstanceNumber	IS
(0x0020,0x0020)	PatientOrientation	CS
(0x0020,0x0032)	ImagePositionPatient	DS
(0x0020,0x0037)	ImageOrientationPatient	DS
(0x0020,0x0052)	FrameOfReferenceUID	UI
(0x0020,0x0105)	NumberOfTemporalPositions	IS
(0x0020,0x1002)	ImagesInAcquisition	IS
(0x0020,0x1041)	SliceLocation	DS
(0x0028,0x0002)	SamplesPerPixel	US
(0x0028,0x0004)	PhotometricInterpretation	CS
(0x0028,0x0006)	PlanarConfiguration	US
(0x0028,0x0010)	Rows	US
(0x0028,0x0011)	Columns	US
(0x0028,0x0030)	PixelSpacing	DS
(0x0028,0x0100)	BitsAllocated	US
(0x0028,0x0101)	BitsStored	US
(0x0028,0x0102)	HighBit	US
(0x0028,0x0103)	PixelRepresentation	US
(0x0028,0x1050)	WindowCenter	DS
(0x0028,0x1051)	WindowWidth	DS

(0x0028,0x1054)	RescaleType	LO
(0x0061,0x0010)	PrivateCreator	LO
(0x0061,0x1001)	CMN JSON Structure	OB
(0x7fe0,0x0010)	PixelData	OB
Series: maxip		
(0x0008,0x0005)	SpecificCharacterSet	CS
(0x0008,0x0008)	ImageType	CS
(0x0008,0x0016)	SOPClassUID	UI
(0x0008,0x0018)	SOPInstanceUID	UI
(0x0008,0x0020)	StudyDate	DA
(0x0008,0x0021)	SeriesDate	DA
(0x0008,0x0022)	AcquisitionDate	DA
(0x0008,0x002a)	AcquisitionDateTime	DT
(0x0008,0x0030)	StudyTime	TM
(0x0008,0x0031)	SeriesTime	TM
(0x0008,0x0032)	AcquisitionTime	TM
(0x0008,0x0050)	AccessionNumber	SH
(0x0008,0x0060)	Modality	CS
(0x0008,0x0070)	Manufacturer	LO
(0x0008,0x0080)	InstitutionName	LO
(0x0008,0x0090)	ReferringPhysicianName	PN
(0x0008,0x0201)	TimezoneOffsetFromUTC	SH
(0x0008,0x1010)	StationName	SH
(0x0008,0x1030)	StudyDescription	LO
(0x0008,0x103e)	SeriesDescription	LO
(0x0008,0x1040)	InstitutionalDepartmentName	LO
(0x0008,0x1090)	ManufacturerModelName	LO
(0x0008,0x2111)	DerivationDescription	ST
(0x0010,0x0010)	PatientName	PN
(0x0010,0x0020)	PatientID	LO
(0x0010,0x0030)	PatientBirthDate	DA
(0x0010,0x0040)	PatientSex	CS
(0x0010,0x1010)	PatientAge	AS
(0x0018,0x0010)	ContrastBolusAgent	LO

(0x0018,0x0050)	SliceThickness	DS
(0x0018,0x0080)	RepetitionTime	DS
(0x0018,0x0081)	EchoTime	DS
(0x0018,0x0088)	SpacingBetweenSlices	DS
(0x0018,0x1009)	UniqueDeviceIdentifier	UT
(0x0018,0x100a)	UDISequence	SQ
(0x0018,0x1030)	ProtocolName	LO
(0x0018,0x1314)	FlipAngle	DS
(0x0020,0x000d)	StudyInstanceUID	UI
(0x0020,0x000e)	SeriesInstanceUID	UI
(0x0020,0x0010)	StudyID	SH
(0x0020,0x0011)	SeriesNumber	IS
(0x0020,0x0013)	InstanceNumber	IS
(0x0020,0x0032)	ImagePositionPatient	DS
(0x0020,0x0037)	ImageOrientationPatient	DS
(0x0020,0x0052)	FrameOfReferenceUID	UI
(0x0020,0x0105)	NumberOfTemporalPositions	IS
(0x0020,0x1002)	ImagesInAcquisition	IS
(0x0020,0x1041)	SliceLocation	DS
(0x0020,0x9128)	TemporalPositionIndex	UL
(0x0028,0x0002)	SamplesPerPixel	US
(0x0028,0x0004)	PhotometricInterpretation	CS
(0x0028,0x0010)	Rows	US
(0x0028,0x0011)	Columns	US
(0x0028,0x0030)	PixelSpacing	DS
(0x0028,0x0100)	BitsAllocated	US
(0x0028,0x0101)	BitsStored	US
(0x0028,0x0102)	HighBit	US
(0x0028,0x0103)	PixelRepresentation	US
(0x0028,0x0106)	SmallestImagePixelValue	US
(0x0028,0x0107)	LargestImagePixelValue	US
(0x0028,0x1050)	WindowCenter	DS
(0x0028,0x1051)	WindowWidth	DS
(0x0028,0x1052)	RescaleIntercept	DS

(0x0028,0x1053)	RescaleSlope	DS
(0x0028,0x1054)	RescaleType	LO
(0x0061,0x0010)	PrivateCreator	LO
(0x0061,0x1001)	CMN JSON Structure	OB
(0x7fe0,0x0010)	PixelData	OB
Series: mean-intensity-aif-curves		
(0x0008,0x0005)	SpecificCharacterSet	CS
(0x0008,0x0008)	ImageType	CS
(0x0008,0x0016)	SOPClassUID	UI
(0x0008,0x0018)	SOPInstanceUID	UI
(0x0008,0x0020)	StudyDate	DA
(0x0008,0x0021)	SeriesDate	DA
(0x0008,0x0022)	AcquisitionDate	DA
(0x0008,0x002a)	AcquisitionDateTime	DT
(0x0008,0x0030)	StudyTime	TM
(0x0008,0x0031)	SeriesTime	TM
(0x0008,0x0032)	AcquisitionTime	TM
(0x0008,0x0050)	AccessionNumber	SH
(0x0008,0x0060)	Modality	CS
(0x0008,0x0064)	ConversionType	CS
(0x0008,0x0070)	Manufacturer	LO
(0x0008,0x0080)	InstitutionName	LO
(0x0008,0x0090)	ReferringPhysicianName	PN
(0x0008,0x0201)	TimezoneOffsetFromUTC	SH
(0x0008,0x1010)	StationName	SH
(0x0008,0x1030)	StudyDescription	LO
(0x0008,0x103e)	SeriesDescription	LO
(0x0008,0x1040)	InstitutionalDepartmentName	LO
(0x0008,0x1090)	ManufacturerModelName	LO
(0x0008,0x2111)	DerivationDescription	ST
(0x0010,0x0010)	PatientName	PN
(0x0010,0x0020)	PatientID	LO
(0x0010,0x0030)	PatientBirthDate	DA
(0x0010,0x0040)	PatientSex	CS

(0x0010,0x1010)	PatientAge	AS
(0x0018,0x0010)	ContrastBolusAgent	LO
(0x0018,0x0050)	SliceThickness	DS
(0x0018,0x0080)	RepetitionTime	DS
(0x0018,0x0081)	EchoTime	DS
(0x0018,0x0082)	InversionTime	DS
(0x0018,0x0088)	SpacingBetweenSlices	DS
(0x0018,0x1009)	UniqueDeviceIdentifier	UT
(0x0018,0x100a)	UDISequence	SQ
(0x0018,0x1030)	ProtocolName	LO
(0x0018,0x1314)	FlipAngle	DS
(0x0018,0x2010)	NominalScannedPixelSpacing	DS
(0x0020,0x000d)	StudyInstanceUID	UI
(0x0020,0x000e)	SeriesInstanceUID	UI
(0x0020,0x0010)	StudyID	SH
(0x0020,0x0011)	SeriesNumber	IS
(0x0020,0x0013)	InstanceNumber	IS
(0x0020,0x0020)	PatientOrientation	CS
(0x0020,0x0032)	ImagePositionPatient	DS
(0x0020,0x0037)	ImageOrientationPatient	DS
(0x0020,0x0052)	FrameOfReferenceUID	UI
(0x0020,0x0105)	NumberOfTemporalPositions	IS
(0x0020,0x1002)	ImagesInAcquisition	IS
(0x0020,0x1041)	SliceLocation	DS
(0x0028,0x0002)	SamplesPerPixel	US
(0x0028,0x0004)	PhotometricInterpretation	CS
(0x0028,0x0006)	PlanarConfiguration	US
(0x0028,0x0010)	Rows	US
(0x0028,0x0011)	Columns	US
(0x0028,0x0030)	PixelSpacing	DS
(0x0028,0x0100)	BitsAllocated	US
(0x0028,0x0101)	BitsStored	US
(0x0028,0x0102)	HighBit	US
(0x0028,0x0103)	PixelRepresentation	US

(0x0028,0x1050)	WindowCenter	DS
(0x0028,0x1051)	WindowWidth	DS
(0x0028,0x1054)	RescaleType	LO
(0x0061,0x0010)	PrivateCreator	LO
(0x0061,0x1001)	CMN JSON Structure	OB
(0x7fe0,0x0010)	PixelData	OB
Series: minip		
(0x0008,0x0005)	SpecificCharacterSet	CS
(0x0008,0x0008)	ImageType	CS
(0x0008,0x0016)	SOPClassUID	UI
(0x0008,0x0018)	SOPInstanceUID	UI
(0x0008,0x0020)	StudyDate	DA
(0x0008,0x0021)	SeriesDate	DA
(0x0008,0x0022)	AcquisitionDate	DA
(0x0008,0x0030)	StudyTime	TM
(0x0008,0x0031)	SeriesTime	TM
(0x0008,0x0032)	AcquisitionTime	TM
(0x0008,0x0050)	AccessionNumber	SH
(0x0008,0x0060)	Modality	CS
(0x0008,0x0070)	Manufacturer	LO
(0x0008,0x0080)	InstitutionName	LO
(0x0008,0x0090)	ReferringPhysicianName	PN
(0x0008,0x0201)	TimezoneOffsetFromUTC	SH
(0x0008,0x1010)	StationName	SH
(0x0008,0x1030)	StudyDescription	LO
(0x0008,0x103e)	SeriesDescription	LO
(0x0008,0x1040)	InstitutionalDepartmentName	LO
(0x0008,0x1090)	ManufacturerModelName	LO
(0x0008,0x2111)	DerivationDescription	ST
(0x0010,0x0010)	PatientName	PN
(0x0010,0x0020)	PatientID	LO
(0x0010,0x0030)	PatientBirthDate	DA
(0x0010,0x0040)	PatientSex	CS
(0x0010,0x1010)	PatientAge	AS

(0x0018,0x0010)	ContrastBolusAgent	LO
(0x0018,0x0050)	SliceThickness	DS
(0x0018,0x0080)	RepetitionTime	DS
(0x0018,0x0081)	EchoTime	DS
(0x0018,0x0082)	InversionTime	DS
(0x0018,0x0088)	SpacingBetweenSlices	DS
(0x0018,0x1009)	UniqueDeviceIdentifier	UT
(0x0018,0x100a)	UDISequence	SQ
(0x0018,0x1030)	ProtocolName	LO
(0x0018,0x1314)	FlipAngle	DS
(0x0020,0x000d)	StudyInstanceUID	UI
(0x0020,0x000e)	SeriesInstanceUID	UI
(0x0020,0x0010)	StudyID	SH
(0x0020,0x0011)	SeriesNumber	IS
(0x0020,0x0013)	InstanceNumber	IS
(0x0020,0x0032)	ImagePositionPatient	DS
(0x0020,0x0037)	ImageOrientationPatient	DS
(0x0020,0x0052)	FrameOfReferenceUID	UI
(0x0020,0x0105)	NumberOfTemporalPositions	IS
(0x0020,0x1002)	ImagesInAcquisition	IS
(0x0020,0x1041)	SliceLocation	DS
(0x0020,0x9128)	TemporalPositionIndex	UL
(0x0028,0x0002)	SamplesPerPixel	US
(0x0028,0x0004)	PhotometricInterpretation	CS
(0x0028,0x0010)	Rows	US
(0x0028,0x0011)	Columns	US
(0x0028,0x0030)	PixelSpacing	DS
(0x0028,0x0100)	BitsAllocated	US
(0x0028,0x0101)	BitsStored	US
(0x0028,0x0102)	HighBit	US
(0x0028,0x0103)	PixelRepresentation	US
(0x0028,0x0106)	SmallestImagePixelValue	US
(0x0028,0x0107)	LargestImagePixelValue	US
(0x0028,0x1050)	WindowCenter	DS

(0x0028,0x1051)	WindowWidth	DS
(0x0028,0x1052)	RescaleIntercept	DS
(0x0028,0x1053)	RescaleSlope	DS
(0x0028,0x1054)	RescaleType	LO
(0x0061,0x0010)	PrivateCreator	LO
(0x0061,0x1001)	CMN JSON Structure	OB
(0x7fe0,0x0010)	PixelData	OB
Series: mismatch-lesion		
(0x0008,0x0005)	SpecificCharacterSet	CS
(0x0008,0x0008)	ImageType	CS
(0x0008,0x0016)	SOPClassUID	UI
(0x0008,0x0018)	SOPInstanceUID	UI
(0x0008,0x0020)	StudyDate	DA
(0x0008,0x0021)	SeriesDate	DA
(0x0008,0x0022)	AcquisitionDate	DA
(0x0008,0x002a)	AcquisitionDateTime	DT
(0x0008,0x0030)	StudyTime	TM
(0x0008,0x0031)	SeriesTime	TM
(0x0008,0x0032)	AcquisitionTime	TM
(0x0008,0x0050)	AccessionNumber	SH
(0x0008,0x0060)	Modality	CS
(0x0008,0x0064)	ConversionType	CS
(0x0008,0x0070)	Manufacturer	LO
(0x0008,0x0080)	InstitutionName	LO
(0x0008,0x0090)	ReferringPhysicianName	PN
(0x0008,0x0201)	TimezoneOffsetFromUTC	SH
(0x0008,0x1010)	StationName	SH
(0x0008,0x1030)	StudyDescription	LO
(0x0008,0x103e)	SeriesDescription	LO
(0x0008,0x1040)	InstitutionalDepartmentName	LO
(0x0008,0x1090)	ManufacturerModelName	LO
(0x0008,0x2111)	DerivationDescription	ST
(0x0010,0x0010)	PatientName	PN
(0x0010,0x0020)	PatientID	LO

(0x0010,0x0030)	PatientBirthDate	DA
(0x0010,0x0040)	PatientSex	CS
(0x0010,0x1010)	PatientAge	AS
(0x0018,0x0050)	SliceThickness	DS
(0x0018,0x0080)	RepetitionTime	DS
(0x0018,0x0081)	EchoTime	DS
(0x0018,0x0082)	InversionTime	DS
(0x0018,0x0088)	SpacingBetweenSlices	DS
(0x0018,0x1009)	UniqueDeviceIdentifier	UT
(0x0018,0x100a)	UDISequence	SQ
(0x0018,0x1030)	ProtocolName	LO
(0x0018,0x1314)	FlipAngle	DS
(0x0018,0x2010)	NominalScannedPixelSpacing	DS
(0x0020,0x000d)	StudyInstanceUID	UI
(0x0020,0x000e)	SeriesInstanceUID	UI
(0x0020,0x0010)	StudyID	SH
(0x0020,0x0011)	SeriesNumber	IS
(0x0020,0x0013)	InstanceNumber	IS
(0x0020,0x0020)	PatientOrientation	CS
(0x0020,0x0032)	ImagePositionPatient	DS
(0x0020,0x0037)	ImageOrientationPatient	DS
(0x0020,0x0052)	FrameOfReferenceUID	UI
(0x0020,0x0105)	NumberOfTemporalPositions	IS
(0x0020,0x1002)	ImagesInAcquisition	IS
(0x0020,0x1041)	SliceLocation	DS
(0x0020,0x9128)	TemporalPositionIndex	UL
(0x0028,0x0002)	SamplesPerPixel	US
(0x0028,0x0004)	PhotometricInterpretation	CS
(0x0028,0x0006)	PlanarConfiguration	US
(0x0028,0x0010)	Rows	US
(0x0028,0x0011)	Columns	US
(0x0028,0x0030)	PixelSpacing	DS
(0x0028,0x0100)	BitsAllocated	US
(0x0028,0x0101)	BitsStored	US

(0x0028,0x0102)	HighBit	US
(0x0028,0x0103)	PixelRepresentation	US
(0x0028,0x1050)	WindowCenter	DS
(0x0028,0x1051)	WindowWidth	DS
(0x0028,0x1054)	RescaleType	LO
(0x0061,0x0010)	PrivateCreator	LO
(0x0061,0x1001)	CMN JSON Structure	OB
(0x7fe0,0x0010)	PixelData	OB
Series: montage		
(0x0008,0x0005)	SpecificCharacterSet	CS
(0x0008,0x0008)	ImageType	CS
(0x0008,0x0016)	SOPClassUID	UI
(0x0008,0x0018)	SOPInstanceUID	UI
(0x0008,0x0020)	StudyDate	DA
(0x0008,0x0021)	SeriesDate	DA
(0x0008,0x0022)	AcquisitionDate	DA
(0x0008,0x002a)	AcquisitionDateTime	DT
(0x0008,0x0030)	StudyTime	TM
(0x0008,0x0031)	SeriesTime	TM
(0x0008,0x0032)	AcquisitionTime	TM
(0x0008,0x0050)	AccessionNumber	SH
(0x0008,0x0060)	Modality	CS
(0x0008,0x0064)	ConversionType	CS
(0x0008,0x0070)	Manufacturer	LO
(0x0008,0x0080)	InstitutionName	LO
(0x0008,0x0090)	ReferringPhysicianName	PN
(0x0008,0x0201)	TimezoneOffsetFromUTC	SH
(0x0008,0x1010)	StationName	SH
(0x0008,0x1030)	StudyDescription	LO
(0x0008,0x103e)	SeriesDescription	LO
(0x0008,0x1040)	InstitutionalDepartmentName	LO
(0x0008,0x1090)	ManufacturerModelName	LO
(0x0008,0x2111)	DerivationDescription	ST
(0x0010,0x0010)	PatientName	PN

(0x0010,0x0020)	PatientID	LO
(0x0010,0x0030)	PatientBirthDate	DA
(0x0010,0x0040)	PatientSex	CS
(0x0010,0x1010)	PatientAge	AS
(0x0018,0x0050)	SliceThickness	DS
(0x0018,0x0080)	RepetitionTime	DS
(0x0018,0x0081)	EchoTime	DS
(0x0018,0x0082)	InversionTime	DS
(0x0018,0x0088)	SpacingBetweenSlices	DS
(0x0018,0x1009)	UniqueDeviceIdentifier	UT
(0x0018,0x100a)	UDISequence	SQ
(0x0018,0x1030)	ProtocolName	LO
(0x0018,0x1314)	FlipAngle	DS
(0x0018,0x2010)	NominalScannedPixelSpacing	DS
(0x0020,0x000d)	StudyInstanceUID	UI
(0x0020,0x000e)	SeriesInstanceUID	UI
(0x0020,0x0010)	StudyID	SH
(0x0020,0x0011)	SeriesNumber	IS
(0x0020,0x0013)	InstanceNumber	IS
(0x0020,0x0020)	PatientOrientation	CS
(0x0020,0x0032)	ImagePositionPatient	DS
(0x0020,0x0037)	ImageOrientationPatient	DS
(0x0020,0x0052)	FrameOfReferenceUID	UI
(0x0020,0x0105)	NumberOfTemporalPositions	IS
(0x0020,0x1002)	ImagesInAcquisition	IS
(0x0020,0x1041)	SliceLocation	DS
(0x0028,0x0002)	SamplesPerPixel	US
(0x0028,0x0004)	PhotometricInterpretation	CS
(0x0028,0x0006)	PlanarConfiguration	US
(0x0028,0x0010)	Rows	US
(0x0028,0x0011)	Columns	US
(0x0028,0x0030)	PixelSpacing	DS
(0x0028,0x0100)	BitsAllocated	US
(0x0028,0x0101)	BitsStored	US

(0x0028,0x0102)	HighBit	US
(0x0028,0x0103)	PixelRepresentation	US
(0x0028,0x1050)	WindowCenter	DS
(0x0028,0x1051)	WindowWidth	DS
(0x0028,0x1054)	RescaleType	LO
(0x0061,0x0010)	PrivateCreator	LO
(0x0061,0x1001)	CMN JSON Structure	OB
(0x7fe0,0x0010)	PixelData	OB
Series: mr-adc		
(0x0008,0x0005)	SpecificCharacterSet	CS
(0x0008,0x0008)	ImageType	CS
(0x0008,0x0016)	SOPClassUID	UI
(0x0008,0x0018)	SOPInstanceUID	UI
(0x0008,0x0020)	StudyDate	DA
(0x0008,0x0021)	SeriesDate	DA
(0x0008,0x0022)	AcquisitionDate	DA
(0x0008,0x0030)	StudyTime	TM
(0x0008,0x0031)	SeriesTime	TM
(0x0008,0x0032)	AcquisitionTime	TM
(0x0008,0x0050)	AccessionNumber	SH
(0x0008,0x0060)	Modality	CS
(0x0008,0x0070)	Manufacturer	LO
(0x0008,0x0080)	InstitutionName	LO
(0x0008,0x0090)	ReferringPhysicianName	PN
(0x0008,0x0201)	TimezoneOffsetFromUTC	SH
(0x0008,0x1010)	StationName	SH
(0x0008,0x1030)	StudyDescription	LO
(0x0008,0x103e)	SeriesDescription	LO
(0x0008,0x1040)	InstitutionalDepartmentName	LO
(0x0008,0x1090)	ManufacturerModelName	LO
(0x0008,0x2111)	DerivationDescription	ST
(0x0010,0x0010)	PatientName	PN
(0x0010,0x0020)	PatientID	LO
(0x0010,0x0030)	PatientBirthDate	DA

(0x0010,0x0040)	PatientSex	CS
(0x0010,0x1010)	PatientAge	AS
(0x0018,0x0050)	SliceThickness	DS
(0x0018,0x0080)	RepetitionTime	DS
(0x0018,0x0081)	EchoTime	DS
(0x0018,0x0082)	InversionTime	DS
(0x0018,0x0088)	SpacingBetweenSlices	DS
(0x0018,0x1009)	UniqueDeviceIdentifier	UT
(0x0018,0x100a)	UDISequence	SQ
(0x0018,0x1030)	ProtocolName	LO
(0x0018,0x1314)	FlipAngle	DS
(0x0018,0x9087)	DiffusionBValue	FD
(0x0020,0x000d)	StudyInstanceUID	UI
(0x0020,0x000e)	SeriesInstanceUID	UI
(0x0020,0x0010)	StudyID	SH
(0x0020,0x0011)	SeriesNumber	IS
(0x0020,0x0013)	InstanceNumber	IS
(0x0020,0x0032)	ImagePositionPatient	DS
(0x0020,0x0037)	ImageOrientationPatient	DS
(0x0020,0x0052)	FrameOfReferenceUID	UI
(0x0020,0x0105)	NumberOfTemporalPositions	IS
(0x0020,0x1002)	ImagesInAcquisition	IS
(0x0020,0x1041)	SliceLocation	DS
(0x0020,0x9128)	TemporalPositionIndex	UL
(0x0028,0x0002)	SamplesPerPixel	US
(0x0028,0x0004)	PhotometricInterpretation	CS
(0x0028,0x0010)	Rows	US
(0x0028,0x0011)	Columns	US
(0x0028,0x0030)	PixelSpacing	DS
(0x0028,0x0100)	BitsAllocated	US
(0x0028,0x0101)	BitsStored	US
(0x0028,0x0102)	HighBit	US
(0x0028,0x0103)	PixelRepresentation	US
(0x0028,0x0106)	SmallestImagePixelValue	US

(0x0028,0x0107)	LargestImagePixelValue	US
(0x0028,0x1050)	WindowCenter	DS
(0x0028,0x1051)	WindowWidth	DS
(0x0028,0x1052)	RescaleIntercept	DS
(0x0028,0x1053)	RescaleSlope	DS
(0x0028,0x1054)	RescaleType	LO
(0x0061,0x0010)	PrivateCreator	LO
(0x0061,0x1001)	CMN JSON Structure	OB
(0x7fe0,0x0010)	PixelData	OB
Series: mr-adc-threshold		
(0x0008,0x0008)	ImageType	CS
(0x0008,0x0016)	SOPClassUID	UI
(0x0008,0x0018)	SOPInstanceUID	UI
(0x0008,0x0020)	StudyDate	DA
(0x0008,0x0021)	SeriesDate	DA
(0x0008,0x0022)	AcquisitionDate	DA
(0x0008,0x0030)	StudyTime	TM
(0x0008,0x0031)	SeriesTime	TM
(0x0008,0x0032)	AcquisitionTime	TM
(0x0008,0x0050)	AccessionNumber	SH
(0x0008,0x0060)	Modality	CS
(0x0008,0x0064)	ConversionType	CS
(0x0008,0x0070)	Manufacturer	LO
(0x0008,0x0080)	InstitutionName	LO
(0x0008,0x0090)	ReferringPhysicianName	PN
(0x0008,0x0201)	TimezoneOffsetFromUTC	SH
(0x0008,0x1010)	StationName	SH
(0x0008,0x1030)	StudyDescription	LO
(0x0008,0x103e)	SeriesDescription	LO
(0x0008,0x1040)	InstitutionalDepartmentName	LO
(0x0008,0x1090)	ManufacturerModelName	LO
(0x0008,0x2111)	DerivationDescription	ST
(0x0010,0x0010)	PatientName	PN
(0x0010,0x0020)	PatientID	LO

(0x0010,0x0030)	PatientBirthDate	DA
(0x0010,0x0040)	PatientSex	CS
(0x0010,0x1010)	PatientAge	AS
(0x0018,0x0050)	SliceThickness	DS
(0x0018,0x0080)	RepetitionTime	DS
(0x0018,0x0081)	EchoTime	DS
(0x0018,0x0088)	SpacingBetweenSlices	DS
(0x0018,0x1009)	UniqueDeviceIdentifier	UT
(0x0018,0x100a)	UDISequence	SQ
(0x0018,0x1030)	ProtocolName	LO
(0x0018,0x1314)	FlipAngle	DS
(0x0018,0x2010)	NominalScannedPixelSpacing	DS
(0x0020,0x000d)	StudyInstanceUID	UI
(0x0020,0x000e)	SeriesInstanceUID	UI
(0x0020,0x0010)	StudyID	SH
(0x0020,0x0011)	SeriesNumber	IS
(0x0020,0x0013)	InstanceNumber	IS
(0x0020,0x0020)	PatientOrientation	CS
(0x0020,0x0032)	ImagePositionPatient	DS
(0x0020,0x0037)	ImageOrientationPatient	DS
(0x0020,0x0052)	FrameOfReferenceUID	UI
(0x0020,0x0105)	NumberOfTemporalPositions	IS
(0x0020,0x1002)	ImagesInAcquisition	IS
(0x0020,0x1041)	SliceLocation	DS
(0x0020,0x9128)	TemporalPositionIndex	UL
(0x0028,0x0002)	SamplesPerPixel	US
(0x0028,0x0004)	PhotometricInterpretation	CS
(0x0028,0x0006)	PlanarConfiguration	US
(0x0028,0x0010)	Rows	US
(0x0028,0x0011)	Columns	US
(0x0028,0x0030)	PixelSpacing	DS
(0x0028,0x0100)	BitsAllocated	US
(0x0028,0x0101)	BitsStored	US
(0x0028,0x0102)	HighBit	US

(0x0028,0x0103)	PixelRepresentation	US
(0x0028,0x1050)	WindowCenter	DS
(0x0028,0x1051)	WindowWidth	DS
(0x0028,0x1054)	RescaleType	LO
(0x0061,0x0010)	PrivateCreator	LO
(0x0061,0x1001)	CMN JSON Structure	OB
(0x7fe0,0x0010)	PixelData	OB
Series: mr-b0		
(0x0008,0x0005)	SpecificCharacterSet	CS
(0x0008,0x0008)	ImageType	CS
(0x0008,0x0016)	SOPClassUID	UI
(0x0008,0x0018)	SOPInstanceUID	UI
(0x0008,0x0020)	StudyDate	DA
(0x0008,0x0021)	SeriesDate	DA
(0x0008,0x0022)	AcquisitionDate	DA
(0x0008,0x0030)	StudyTime	TM
(0x0008,0x0031)	SeriesTime	TM
(0x0008,0x0032)	AcquisitionTime	TM
(0x0008,0x0050)	AccessionNumber	SH
(0x0008,0x0060)	Modality	CS
(0x0008,0x0070)	Manufacturer	LO
(0x0008,0x0080)	InstitutionName	LO
(0x0008,0x0090)	ReferringPhysicianName	PN
(0x0008,0x0201)	TimezoneOffsetFromUTC	SH
(0x0008,0x1010)	StationName	SH
(0x0008,0x1030)	StudyDescription	LO
(0x0008,0x103e)	SeriesDescription	LO
(0x0008,0x1040)	InstitutionalDepartmentName	LO
(0x0008,0x1090)	ManufacturerModelName	LO
(0x0008,0x2111)	DerivationDescription	ST
(0x0010,0x0010)	PatientName	PN
(0x0010,0x0020)	PatientID	LO
(0x0010,0x0030)	PatientBirthDate	DA
(0x0010,0x0040)	PatientSex	CS

(0x0010,0x1010)	PatientAge	AS
(0x0018,0x0050)	SliceThickness	DS
(0x0018,0x0080)	RepetitionTime	DS
(0x0018,0x0081)	EchoTime	DS
(0x0018,0x0082)	InversionTime	DS
(0x0018,0x0088)	SpacingBetweenSlices	DS
(0x0018,0x1009)	UniqueDeviceIdentifier	UT
(0x0018,0x100a)	UDISequence	SQ
(0x0018,0x1030)	ProtocolName	LO
(0x0018,0x1314)	FlipAngle	DS
(0x0018,0x9087)	DiffusionBValue	FD
(0x0020,0x000d)	StudyInstanceUID	UI
(0x0020,0x000e)	SeriesInstanceUID	UI
(0x0020,0x0010)	StudyID	SH
(0x0020,0x0011)	SeriesNumber	IS
(0x0020,0x0013)	InstanceNumber	IS
(0x0020,0x0032)	ImagePositionPatient	DS
(0x0020,0x0037)	ImageOrientationPatient	DS
(0x0020,0x0052)	FrameOfReferenceUID	UI
(0x0020,0x0105)	NumberOfTemporalPositions	IS
(0x0020,0x1002)	ImagesInAcquisition	IS
(0x0020,0x1041)	SliceLocation	DS
(0x0020,0x9128)	TemporalPositionIndex	UL
(0x0028,0x0002)	SamplesPerPixel	US
(0x0028,0x0004)	PhotometricInterpretation	CS
(0x0028,0x0010)	Rows	US
(0x0028,0x0011)	Columns	US
(0x0028,0x0030)	PixelSpacing	DS
(0x0028,0x0100)	BitsAllocated	US
(0x0028,0x0101)	BitsStored	US
(0x0028,0x0102)	HighBit	US
(0x0028,0x0103)	PixelRepresentation	US
(0x0028,0x0106)	SmallestImagePixelValue	US
(0x0028,0x0107)	LargestImagePixelValue	US

(0x0028,0x1050)	WindowCenter	DS
(0x0028,0x1051)	WindowWidth	DS
(0x0028,0x1052)	RescaleIntercept	DS
(0x0028,0x1053)	RescaleSlope	DS
(0x0028,0x1054)	RescaleType	LO
(0x0061,0x0010)	PrivateCreator	LO
(0x0061,0x1001)	CMN JSON Structure	OB
(0x7fe0,0x0010)	PixelData	OB
Series: mr-core-lesion		
(0x0008,0x0005)	SpecificCharacterSet	CS
(0x0008,0x0008)	ImageType	CS
(0x0008,0x0016)	SOPClassUID	UI
(0x0008,0x0018)	SOPInstanceUID	UI
(0x0008,0x0020)	StudyDate	DA
(0x0008,0x0021)	SeriesDate	DA
(0x0008,0x0022)	AcquisitionDate	DA
(0x0008,0x0030)	StudyTime	TM
(0x0008,0x0031)	SeriesTime	TM
(0x0008,0x0032)	AcquisitionTime	TM
(0x0008,0x0050)	AccessionNumber	SH
(0x0008,0x0060)	Modality	CS
(0x0008,0x0064)	ConversionType	CS
(0x0008,0x0070)	Manufacturer	LO
(0x0008,0x0080)	InstitutionName	LO
(0x0008,0x0090)	ReferringPhysicianName	PN
(0x0008,0x0201)	TimezoneOffsetFromUTC	SH
(0x0008,0x1010)	StationName	SH
(0x0008,0x1030)	StudyDescription	LO
(0x0008,0x103e)	SeriesDescription	LO
(0x0008,0x1040)	InstitutionalDepartmentName	LO
(0x0008,0x1090)	ManufacturerModelName	LO
(0x0008,0x2111)	DerivationDescription	ST
(0x0010,0x0010)	PatientName	PN
(0x0010,0x0020)	PatientID	LO

(0x0010,0x0030)	PatientBirthDate	DA
(0x0010,0x0040)	PatientSex	CS
(0x0010,0x1010)	PatientAge	AS
(0x0018,0x0050)	SliceThickness	DS
(0x0018,0x0080)	RepetitionTime	DS
(0x0018,0x0081)	EchoTime	DS
(0x0018,0x0082)	InversionTime	DS
(0x0018,0x0088)	SpacingBetweenSlices	DS
(0x0018,0x1009)	UniqueDeviceIdentifier	UT
(0x0018,0x100a)	UDISequence	SQ
(0x0018,0x1030)	ProtocolName	LO
(0x0018,0x1314)	FlipAngle	DS
(0x0018,0x2010)	NominalScannedPixelSpacing	DS
(0x0020,0x000d)	StudyInstanceUID	UI
(0x0020,0x000e)	SeriesInstanceUID	UI
(0x0020,0x0010)	StudyID	SH
(0x0020,0x0011)	SeriesNumber	IS
(0x0020,0x0013)	InstanceNumber	IS
(0x0020,0x0020)	PatientOrientation	CS
(0x0020,0x0032)	ImagePositionPatient	DS
(0x0020,0x0037)	ImageOrientationPatient	DS
(0x0020,0x0052)	FrameOfReferenceUID	UI
(0x0020,0x0105)	NumberOfTemporalPositions	IS
(0x0020,0x1002)	ImagesInAcquisition	IS
(0x0020,0x1041)	SliceLocation	DS
(0x0020,0x9128)	TemporalPositionIndex	UL
(0x0028,0x0002)	SamplesPerPixel	US
(0x0028,0x0004)	PhotometricInterpretation	CS
(0x0028,0x0006)	PlanarConfiguration	US
(0x0028,0x0010)	Rows	US
(0x0028,0x0011)	Columns	US
(0x0028,0x0030)	PixelSpacing	DS
(0x0028,0x0100)	BitsAllocated	US
(0x0028,0x0101)	BitsStored	US

(0x0028,0x0102)	HighBit	US
(0x0028,0x0103)	PixelRepresentation	US
(0x0028,0x1050)	WindowCenter	DS
(0x0028,0x1051)	WindowWidth	DS
(0x0028,0x1054)	RescaleType	LO
(0x0061,0x0010)	PrivateCreator	LO
(0x0061,0x1001)	CMN JSON Structure	OB
(0x7fe0,0x0010)	PixelData	OB
Series: mr-dwi		
(0x0008,0x0005)	SpecificCharacterSet	CS
(0x0008,0x0008)	ImageType	CS
(0x0008,0x0016)	SOPClassUID	UI
(0x0008,0x0018)	SOPInstanceUID	UI
(0x0008,0x0020)	StudyDate	DA
(0x0008,0x0021)	SeriesDate	DA
(0x0008,0x0022)	AcquisitionDate	DA
(0x0008,0x0030)	StudyTime	TM
(0x0008,0x0031)	SeriesTime	TM
(0x0008,0x0032)	AcquisitionTime	TM
(0x0008,0x0033)	ContentTime	TM
(0x0008,0x0050)	AccessionNumber	SH
(0x0008,0x0060)	Modality	CS
(0x0008,0x0070)	Manufacturer	LO
(0x0008,0x0080)	InstitutionName	LO
(0x0008,0x0090)	ReferringPhysicianName	PN
(0x0008,0x0201)	TimezoneOffsetFromUTC	SH
(0x0008,0x1010)	StationName	SH
(0x0008,0x1030)	StudyDescription	LO
(0x0008,0x103e)	SeriesDescription	LO
(0x0008,0x1040)	InstitutionalDepartmentName	LO
(0x0008,0x1090)	ManufacturerModelName	LO
(0x0008,0x2111)	DerivationDescription	ST
(0x0010,0x0010)	PatientName	PN
(0x0010,0x0020)	PatientID	LO

(0x0010,0x0030)	PatientBirthDate	DA
(0x0010,0x0040)	PatientSex	CS
(0x0010,0x1010)	PatientAge	AS
(0x0018,0x0050)	SliceThickness	DS
(0x0018,0x0080)	RepetitionTime	DS
(0x0018,0x0081)	EchoTime	DS
(0x0018,0x0082)	InversionTime	DS
(0x0018,0x0088)	SpacingBetweenSlices	DS
(0x0018,0x1009)	UniqueDeviceIdentifier	UT
(0x0018,0x100a)	UDISequence	SQ
(0x0018,0x1030)	ProtocolName	LO
(0x0018,0x1314)	FlipAngle	DS
(0x0018,0x9087)	DiffusionBValue	FD
(0x0020,0x000d)	StudyInstanceUID	UI
(0x0020,0x000e)	SeriesInstanceUID	UI
(0x0020,0x0010)	StudyID	SH
(0x0020,0x0011)	SeriesNumber	IS
(0x0020,0x0012)	AcquisitionNumber	IS
(0x0020,0x0013)	InstanceNumber	IS
(0x0020,0x0032)	ImagePositionPatient	DS
(0x0020,0x0037)	ImageOrientationPatient	DS
(0x0020,0x0052)	FrameOfReferenceUID	UI
(0x0020,0x0105)	NumberOfTemporalPositions	IS
(0x0020,0x1002)	ImagesInAcquisition	IS
(0x0020,0x1041)	SliceLocation	DS
(0x0020,0x9128)	TemporalPositionIndex	UL
(0x0028,0x0002)	SamplesPerPixel	US
(0x0028,0x0004)	PhotometricInterpretation	CS
(0x0028,0x0010)	Rows	US
(0x0028,0x0011)	Columns	US
(0x0028,0x0030)	PixelSpacing	DS
(0x0028,0x0100)	BitsAllocated	US
(0x0028,0x0101)	BitsStored	US
(0x0028,0x0102)	HighBit	US

(0x0028,0x0103)	PixelRepresentation	US
(0x0028,0x0106)	SmallestImagePixelValue	US
(0x0028,0x0107)	LargestImagePixelValue	US
(0x0028,0x1050)	WindowCenter	DS
(0x0028,0x1051)	WindowWidth	DS
(0x0028,0x1052)	RescaleIntercept	DS
(0x0028,0x1053)	RescaleSlope	DS
(0x0028,0x1054)	RescaleType	LO
(0x0061,0x0010)	PrivateCreator	LO
(0x0061,0x1001)	CMN JSON Structure	OB
(0x7fe0,0x0010)	PixelData	OB
Series: mr-error-message		
(0x0008,0x0008)	ImageType	CS
(0x0008,0x0016)	SOPClassUID	UI
(0x0008,0x0018)	SOPInstanceUID	UI
(0x0008,0x0020)	StudyDate	DA
(0x0008,0x0021)	SeriesDate	DA
(0x0008,0x0022)	AcquisitionDate	DA
(0x0008,0x0030)	StudyTime	TM
(0x0008,0x0031)	SeriesTime	TM
(0x0008,0x0032)	AcquisitionTime	TM
(0x0008,0x0050)	AccessionNumber	SH
(0x0008,0x0060)	Modality	CS
(0x0008,0x0070)	Manufacturer	LO
(0x0008,0x0090)	ReferringPhysicianName	PN
(0x0008,0x0201)	TimezoneOffsetFromUTC	SH
(0x0008,0x1030)	StudyDescription	LO
(0x0008,0x103e)	SeriesDescription	LO
(0x0008,0x1090)	ManufacturerModelName	LO
(0x0008,0x2111)	DerivationDescription	ST
(0x0010,0x0010)	PatientName	PN
(0x0010,0x0020)	PatientID	LO
(0x0010,0x0030)	PatientBirthDate	DA
(0x0010,0x0040)	PatientSex	CS

(0x0010,0x1010)	PatientAge	AS
(0x0018,0x0050)	SliceThickness	DS
(0x0018,0x0088)	SpacingBetweenSlices	DS
(0x0018,0x1009)	UniqueDeviceIdentifier	UT
(0x0018,0x100a)	UDISequence	SQ
(0x0020,0x000d)	StudyInstanceUID	UI
(0x0020,0x000e)	SeriesInstanceUID	UI
(0x0020,0x0010)	StudyID	SH
(0x0020,0x0011)	SeriesNumber	IS
(0x0020,0x0013)	InstanceNumber	IS
(0x0020,0x0032)	ImagePositionPatient	DS
(0x0020,0x0037)	ImageOrientationPatient	DS
(0x0020,0x0052)	FrameOfReferenceUID	UI
(0x0020,0x0105)	NumberOfTemporalPositions	IS
(0x0020,0x1002)	ImagesInAcquisition	IS
(0x0020,0x1041)	SliceLocation	DS
(0x0028,0x0002)	SamplesPerPixel	US
(0x0028,0x0004)	PhotometricInterpretation	CS
(0x0028,0x0010)	Rows	US
(0x0028,0x0011)	Columns	US
(0x0028,0x0030)	PixelSpacing	DS
(0x0028,0x0100)	BitsAllocated	US
(0x0028,0x0101)	BitsStored	US
(0x0028,0x0102)	HighBit	US
(0x0028,0x0103)	PixelRepresentation	US
(0x0028,0x1050)	WindowCenter	DS
(0x0028,0x1051)	WindowWidth	DS
(0x0028,0x1052)	RescaleIntercept	DS
(0x0028,0x1053)	RescaleSlope	DS
(0x0028,0x1054)	RescaleType	LO
(0x0061,0x0010)	PrivateCreator	LO
(0x0061,0x1001)	CMN JSON Structure	OB
(0x7fe0,0x0010)	PixelData	OB
Series: mr-hyoperfusion-lesion		

(0x0008,0x0005)	SpecificCharacterSet	CS
(0x0008,0x0008)	ImageType	CS
(0x0008,0x0016)	SOPClassUID	UI
(0x0008,0x0018)	SOPInstanceUID	UI
(0x0008,0x0020)	StudyDate	DA
(0x0008,0x0021)	SeriesDate	DA
(0x0008,0x0022)	AcquisitionDate	DA
(0x0008,0x0030)	StudyTime	TM
(0x0008,0x0031)	SeriesTime	TM
(0x0008,0x0032)	AcquisitionTime	TM
(0x0008,0x0050)	AccessionNumber	SH
(0x0008,0x0060)	Modality	CS
(0x0008,0x0064)	ConversionType	CS
(0x0008,0x0070)	Manufacturer	LO
(0x0008,0x0080)	InstitutionName	LO
(0x0008,0x0090)	ReferringPhysicianName	PN
(0x0008,0x0201)	TimezoneOffsetFromUTC	SH
(0x0008,0x1010)	StationName	SH
(0x0008,0x1030)	StudyDescription	LO
(0x0008,0x103e)	SeriesDescription	LO
(0x0008,0x1040)	InstitutionalDepartmentName	LO
(0x0008,0x1090)	ManufacturerModelName	LO
(0x0008,0x2111)	DerivationDescription	ST
(0x0010,0x0010)	PatientName	PN
(0x0010,0x0020)	PatientID	LO
(0x0010,0x0030)	PatientBirthDate	DA
(0x0010,0x0040)	PatientSex	CS
(0x0010,0x1010)	PatientAge	AS
(0x0018,0x0010)	ContrastBolusAgent	LO
(0x0018,0x0050)	SliceThickness	DS
(0x0018,0x0080)	RepetitionTime	DS
(0x0018,0x0081)	EchoTime	DS
(0x0018,0x0082)	InversionTime	DS
(0x0018,0x0088)	SpacingBetweenSlices	DS

(0x0018,0x1009)	UniqueDeviceIdentifier	UT
(0x0018,0x100a)	UDISequence	SQ
(0x0018,0x1030)	ProtocolName	LO
(0x0018,0x1314)	FlipAngle	DS
(0x0018,0x2010)	NominalScannedPixelSpacing	DS
(0x0020,0x000d)	StudyInstanceUID	UI
(0x0020,0x000e)	SeriesInstanceUID	UI
(0x0020,0x0010)	StudyID	SH
(0x0020,0x0011)	SeriesNumber	IS
(0x0020,0x0013)	InstanceNumber	IS
(0x0020,0x0020)	PatientOrientation	CS
(0x0020,0x0032)	ImagePositionPatient	DS
(0x0020,0x0037)	ImageOrientationPatient	DS
(0x0020,0x0052)	FrameOfReferenceUID	UI
(0x0020,0x0105)	NumberOfTemporalPositions	IS
(0x0020,0x1002)	ImagesInAcquisition	IS
(0x0020,0x1041)	SliceLocation	DS
(0x0020,0x9128)	TemporalPositionIndex	UL
(0x0028,0x0002)	SamplesPerPixel	US
(0x0028,0x0004)	PhotometricInterpretation	CS
(0x0028,0x0006)	PlanarConfiguration	US
(0x0028,0x0010)	Rows	US
(0x0028,0x0011)	Columns	US
(0x0028,0x0030)	PixelSpacing	DS
(0x0028,0x0100)	BitsAllocated	US
(0x0028,0x0101)	BitsStored	US
(0x0028,0x0102)	HighBit	US
(0x0028,0x0103)	PixelRepresentation	US
(0x0028,0x1050)	WindowCenter	DS
(0x0028,0x1051)	WindowWidth	DS
(0x0028,0x1054)	RescaleType	LO
(0x0061,0x0010)	PrivateCreator	LO
(0x0061,0x1001)	CMN JSON Structure	OB
(0x7fe0,0x0010)	PixelData	OB

Series: mr-meandwi		
(0x0008,0x0005)	SpecificCharacterSet	CS
(0x0008,0x0008)	ImageType	CS
(0x0008,0x0016)	SOPClassUID	UI
(0x0008,0x0018)	SOPInstanceUID	UI
(0x0008,0x0020)	StudyDate	DA
(0x0008,0x0021)	SeriesDate	DA
(0x0008,0x0022)	AcquisitionDate	DA
(0x0008,0x0030)	StudyTime	TM
(0x0008,0x0031)	SeriesTime	TM
(0x0008,0x0032)	AcquisitionTime	TM
(0x0008,0x0050)	AccessionNumber	SH
(0x0008,0x0060)	Modality	CS
(0x0008,0x0070)	Manufacturer	LO
(0x0008,0x0080)	InstitutionName	LO
(0x0008,0x0090)	ReferringPhysicianName	PN
(0x0008,0x0201)	TimezoneOffsetFromUTC	SH
(0x0008,0x1010)	StationName	SH
(0x0008,0x1030)	StudyDescription	LO
(0x0008,0x103e)	SeriesDescription	LO
(0x0008,0x1040)	InstitutionalDepartmentName	LO
(0x0008,0x1090)	ManufacturerModelName	LO
(0x0008,0x2111)	DerivationDescription	ST
(0x0010,0x0010)	PatientName	PN
(0x0010,0x0020)	PatientID	LO
(0x0010,0x0030)	PatientBirthDate	DA
(0x0010,0x0040)	PatientSex	CS
(0x0010,0x1010)	PatientAge	AS
(0x0018,0x0050)	SliceThickness	DS
(0x0018,0x0080)	RepetitionTime	DS
(0x0018,0x0081)	EchoTime	DS
(0x0018,0x0082)	InversionTime	DS
(0x0018,0x0088)	SpacingBetweenSlices	DS
(0x0018,0x1009)	UniqueDeviceIdentifier	UT

(0x0018,0x100a)	UDISequence	SQ
(0x0018,0x1030)	ProtocolName	LO
(0x0018,0x1314)	FlipAngle	DS
(0x0018,0x9087)	DiffusionBValue	FD
(0x0020,0x000d)	StudyInstanceUID	UI
(0x0020,0x000e)	SeriesInstanceUID	UI
(0x0020,0x0010)	StudyID	SH
(0x0020,0x0011)	SeriesNumber	IS
(0x0020,0x0013)	InstanceNumber	IS
(0x0020,0x0032)	ImagePositionPatient	DS
(0x0020,0x0037)	ImageOrientationPatient	DS
(0x0020,0x0052)	FrameOfReferenceUID	UI
(0x0020,0x0105)	NumberOfTemporalPositions	IS
(0x0020,0x1002)	ImagesInAcquisition	IS
(0x0020,0x1041)	SliceLocation	DS
(0x0020,0x9128)	TemporalPositionIndex	UL
(0x0028,0x0002)	SamplesPerPixel	US
(0x0028,0x0004)	PhotometricInterpretation	CS
(0x0028,0x0010)	Rows	US
(0x0028,0x0011)	Columns	US
(0x0028,0x0030)	PixelSpacing	DS
(0x0028,0x0100)	BitsAllocated	US
(0x0028,0x0101)	BitsStored	US
(0x0028,0x0102)	HighBit	US
(0x0028,0x0103)	PixelRepresentation	US
(0x0028,0x0106)	SmallestImagePixelValue	US
(0x0028,0x0107)	LargestImagePixelValue	US
(0x0028,0x1050)	WindowCenter	DS
(0x0028,0x1051)	WindowWidth	DS
(0x0028,0x1052)	RescaleIntercept	DS
(0x0028,0x1053)	RescaleSlope	DS
(0x0028,0x1054)	RescaleType	LO
(0x0061,0x0010)	PrivateCreator	LO
(0x0061,0x1001)	CMN JSON Structure	OB

(0x7fe0,0x0010)	PixelData	OB
Series: mr-positive-t2flair		
(0x0008,0x0005)	SpecificCharacterSet	CS
(0x0008,0x0008)	ImageType	CS
(0x0008,0x0016)	SOPClassUID	UI
(0x0008,0x0018)	SOPInstanceUID	UI
(0x0008,0x0020)	StudyDate	DA
(0x0008,0x0021)	SeriesDate	DA
(0x0008,0x0022)	AcquisitionDate	DA
(0x0008,0x0030)	StudyTime	TM
(0x0008,0x0031)	SeriesTime	TM
(0x0008,0x0032)	AcquisitionTime	TM
(0x0008,0x0050)	AccessionNumber	SH
(0x0008,0x0060)	Modality	CS
(0x0008,0x0070)	Manufacturer	LO
(0x0008,0x0080)	InstitutionName	LO
(0x0008,0x0090)	ReferringPhysicianName	PN
(0x0008,0x0201)	TimezoneOffsetFromUTC	SH
(0x0008,0x1010)	StationName	SH
(0x0008,0x1030)	StudyDescription	LO
(0x0008,0x103e)	SeriesDescription	LO
(0x0008,0x1040)	InstitutionalDepartmentName	LO
(0x0008,0x1090)	ManufacturerModelName	LO
(0x0008,0x2111)	DerivationDescription	ST
(0x0010,0x0010)	PatientName	PN
(0x0010,0x0020)	PatientID	LO
(0x0010,0x0030)	PatientBirthDate	DA
(0x0010,0x0040)	PatientSex	CS
(0x0010,0x1010)	PatientAge	AS
(0x0018,0x0050)	SliceThickness	DS
(0x0018,0x0080)	RepetitionTime	DS
(0x0018,0x0081)	EchoTime	DS
(0x0018,0x0088)	SpacingBetweenSlices	DS
(0x0018,0x1009)	UniqueDeviceIdentifier	UT

(0x0018,0x100a)	UDISequence	SQ
(0x0018,0x1030)	ProtocolName	LO
(0x0018,0x1314)	FlipAngle	DS
(0x0020,0x000d)	StudyInstanceUID	UI
(0x0020,0x000e)	SeriesInstanceUID	UI
(0x0020,0x0010)	StudyID	SH
(0x0020,0x0011)	SeriesNumber	IS
(0x0020,0x0013)	InstanceNumber	IS
(0x0020,0x0032)	ImagePositionPatient	DS
(0x0020,0x0037)	ImageOrientationPatient	DS
(0x0020,0x0052)	FrameOfReferenceUID	UI
(0x0020,0x0105)	NumberOfTemporalPositions	IS
(0x0020,0x1002)	ImagesInAcquisition	IS
(0x0020,0x1041)	SliceLocation	DS
(0x0020,0x9128)	TemporalPositionIndex	UL
(0x0028,0x0002)	SamplesPerPixel	US
(0x0028,0x0004)	PhotometricInterpretation	CS
(0x0028,0x0010)	Rows	US
(0x0028,0x0011)	Columns	US
(0x0028,0x0030)	PixelSpacing	DS
(0x0028,0x0100)	BitsAllocated	US
(0x0028,0x0101)	BitsStored	US
(0x0028,0x0102)	HighBit	US
(0x0028,0x0103)	PixelRepresentation	US
(0x0028,0x0106)	SmallestImagePixelValue	US
(0x0028,0x0107)	LargestImagePixelValue	US
(0x0028,0x1050)	WindowCenter	DS
(0x0028,0x1051)	WindowWidth	DS
(0x0028,0x1052)	RescaleIntercept	DS
(0x0028,0x1053)	RescaleSlope	DS
(0x0028,0x1054)	RescaleType	LO
(0x0061,0x0010)	PrivateCreator	LO
(0x0061,0x1001)	CMN JSON Structure	OB
(0x7fe0,0x0010)	PixelData	OB

Series: mr-positive-t2flair-basic		
(0x0008,0x0005)	SpecificCharacterSet	CS
(0x0008,0x0008)	ImageType	CS
(0x0008,0x0016)	SOPClassUID	UI
(0x0008,0x0018)	SOPInstanceUID	UI
(0x0008,0x0020)	StudyDate	DA
(0x0008,0x0021)	SeriesDate	DA
(0x0008,0x0022)	AcquisitionDate	DA
(0x0008,0x0030)	StudyTime	TM
(0x0008,0x0031)	SeriesTime	TM
(0x0008,0x0032)	AcquisitionTime	TM
(0x0008,0x0050)	AccessionNumber	SH
(0x0008,0x0060)	Modality	CS
(0x0008,0x0070)	Manufacturer	LO
(0x0008,0x0080)	InstitutionName	LO
(0x0008,0x0090)	ReferringPhysicianName	PN
(0x0008,0x0201)	TimezoneOffsetFromUTC	SH
(0x0008,0x1010)	StationName	SH
(0x0008,0x1030)	StudyDescription	LO
(0x0008,0x103e)	SeriesDescription	LO
(0x0008,0x1040)	InstitutionalDepartmentName	LO
(0x0008,0x1090)	ManufacturerModelName	LO
(0x0008,0x2111)	DerivationDescription	ST
(0x0010,0x0010)	PatientName	PN
(0x0010,0x0020)	PatientID	LO
(0x0010,0x0030)	PatientBirthDate	DA
(0x0010,0x0040)	PatientSex	CS
(0x0010,0x1010)	PatientAge	AS
(0x0018,0x0050)	SliceThickness	DS
(0x0018,0x0080)	RepetitionTime	DS
(0x0018,0x0081)	EchoTime	DS
(0x0018,0x0088)	SpacingBetweenSlices	DS
(0x0018,0x1009)	UniqueDeviceIdentifier	UT
(0x0018,0x100a)	UDISequence	SQ

(0x0018,0x1030)	ProtocolName	LO
(0x0018,0x1314)	FlipAngle	DS
(0x0020,0x000d)	StudyInstanceUID	UI
(0x0020,0x000e)	SeriesInstanceUID	UI
(0x0020,0x0010)	StudyID	SH
(0x0020,0x0011)	SeriesNumber	IS
(0x0020,0x0013)	InstanceNumber	IS
(0x0020,0x0032)	ImagePositionPatient	DS
(0x0020,0x0037)	ImageOrientationPatient	DS
(0x0020,0x0052)	FrameOfReferenceUID	UI
(0x0020,0x0105)	NumberOfTemporalPositions	IS
(0x0020,0x1002)	ImagesInAcquisition	IS
(0x0020,0x1041)	SliceLocation	DS
(0x0020,0x9128)	TemporalPositionIndex	UL
(0x0028,0x0002)	SamplesPerPixel	US
(0x0028,0x0004)	PhotometricInterpretation	CS
(0x0028,0x0010)	Rows	US
(0x0028,0x0011)	Columns	US
(0x0028,0x0030)	PixelSpacing	DS
(0x0028,0x0100)	BitsAllocated	US
(0x0028,0x0101)	BitsStored	US
(0x0028,0x0102)	HighBit	US
(0x0028,0x0103)	PixelRepresentation	US
(0x0028,0x0106)	SmallestImagePixelValue	US
(0x0028,0x0107)	LargestImagePixelValue	US
(0x0028,0x1050)	WindowCenter	DS
(0x0028,0x1051)	WindowWidth	DS
(0x0028,0x1052)	RescaleIntercept	DS
(0x0028,0x1053)	RescaleSlope	DS
(0x0028,0x1054)	RescaleType	LO
(0x0061,0x0010)	PrivateCreator	LO
(0x0061,0x1001)	CMN JSON Structure	OB
(0x7fe0,0x0010)	PixelData	OB
Series: mr-positive-t2flair-basic-montage		

(0x0008,0x0005)	SpecificCharacterSet	CS
(0x0008,0x0008)	ImageType	CS
(0x0008,0x0016)	SOPClassUID	UI
(0x0008,0x0018)	SOPInstanceUID	UI
(0x0008,0x0020)	StudyDate	DA
(0x0008,0x0021)	SeriesDate	DA
(0x0008,0x0022)	AcquisitionDate	DA
(0x0008,0x0030)	StudyTime	TM
(0x0008,0x0031)	SeriesTime	TM
(0x0008,0x0032)	AcquisitionTime	TM
(0x0008,0x0050)	AccessionNumber	SH
(0x0008,0x0060)	Modality	CS
(0x0008,0x0064)	ConversionType	CS
(0x0008,0x0070)	Manufacturer	LO
(0x0008,0x0080)	InstitutionName	LO
(0x0008,0x0090)	ReferringPhysicianName	PN
(0x0008,0x0201)	TimezoneOffsetFromUTC	SH
(0x0008,0x1010)	StationName	SH
(0x0008,0x1030)	StudyDescription	LO
(0x0008,0x103e)	SeriesDescription	LO
(0x0008,0x1040)	InstitutionalDepartmentName	LO
(0x0008,0x1090)	ManufacturerModelName	LO
(0x0008,0x2111)	DerivationDescription	ST
(0x0010,0x0010)	PatientName	PN
(0x0010,0x0020)	PatientID	LO
(0x0010,0x0030)	PatientBirthDate	DA
(0x0010,0x0040)	PatientSex	CS
(0x0010,0x1010)	PatientAge	AS
(0x0018,0x0050)	SliceThickness	DS
(0x0018,0x0080)	RepetitionTime	DS
(0x0018,0x0081)	EchoTime	DS
(0x0018,0x0088)	SpacingBetweenSlices	DS
(0x0018,0x1009)	UniqueDeviceIdentifier	UT
(0x0018,0x100a)	UDISequence	SQ

(0x0018,0x1030)	ProtocolName	LO
(0x0018,0x1314)	FlipAngle	DS
(0x0018,0x2010)	NominalScannedPixelSpacing	DS
(0x0020,0x000d)	StudyInstanceUID	UI
(0x0020,0x000e)	SeriesInstanceUID	UI
(0x0020,0x0010)	StudyID	SH
(0x0020,0x0011)	SeriesNumber	IS
(0x0020,0x0013)	InstanceNumber	IS
(0x0020,0x0020)	PatientOrientation	CS
(0x0020,0x0032)	ImagePositionPatient	DS
(0x0020,0x0037)	ImageOrientationPatient	DS
(0x0020,0x0052)	FrameOfReferenceUID	UI
(0x0020,0x0105)	NumberOfTemporalPositions	IS
(0x0020,0x1002)	ImagesInAcquisition	IS
(0x0020,0x1041)	SliceLocation	DS
(0x0028,0x0002)	SamplesPerPixel	US
(0x0028,0x0004)	PhotometricInterpretation	CS
(0x0028,0x0006)	PlanarConfiguration	US
(0x0028,0x0010)	Rows	US
(0x0028,0x0011)	Columns	US
(0x0028,0x0030)	PixelSpacing	DS
(0x0028,0x0100)	BitsAllocated	US
(0x0028,0x0101)	BitsStored	US
(0x0028,0x0102)	HighBit	US
(0x0028,0x0103)	PixelRepresentation	US
(0x0028,0x1050)	WindowCenter	DS
(0x0028,0x1051)	WindowWidth	DS
(0x0028,0x1054)	RescaleType	LO
(0x0061,0x0010)	PrivateCreator	LO
(0x0061,0x1001)	CMN JSON Structure	OB
(0x7fe0,0x0010)	PixelData	OB
Series: mr-positive-t2flair-montage		
(0x0008,0x0005)	SpecificCharacterSet	CS
(0x0008,0x0008)	ImageType	CS

(0x0008,0x0016)	SOPClassUID	UI
(0x0008,0x0018)	SOPInstanceUID	UI
(0x0008,0x0020)	StudyDate	DA
(0x0008,0x0021)	SeriesDate	DA
(0x0008,0x0022)	AcquisitionDate	DA
(0x0008,0x0030)	StudyTime	TM
(0x0008,0x0031)	SeriesTime	TM
(0x0008,0x0032)	AcquisitionTime	TM
(0x0008,0x0050)	AccessionNumber	SH
(0x0008,0x0060)	Modality	CS
(0x0008,0x0064)	ConversionType	CS
(0x0008,0x0070)	Manufacturer	LO
(0x0008,0x0080)	InstitutionName	LO
(0x0008,0x0090)	ReferringPhysicianName	PN
(0x0008,0x0201)	TimezoneOffsetFromUTC	SH
(0x0008,0x1010)	StationName	SH
(0x0008,0x1030)	StudyDescription	LO
(0x0008,0x103e)	SeriesDescription	LO
(0x0008,0x1040)	InstitutionalDepartmentName	LO
(0x0008,0x1090)	ManufacturerModelName	LO
(0x0008,0x2111)	DerivationDescription	ST
(0x0010,0x0010)	PatientName	PN
(0x0010,0x0020)	PatientID	LO
(0x0010,0x0030)	PatientBirthDate	DA
(0x0010,0x0040)	PatientSex	CS
(0x0010,0x1010)	PatientAge	AS
(0x0018,0x0050)	SliceThickness	DS
(0x0018,0x0080)	RepetitionTime	DS
(0x0018,0x0081)	EchoTime	DS
(0x0018,0x0088)	SpacingBetweenSlices	DS
(0x0018,0x1009)	UniqueDeviceIdentifier	UT
(0x0018,0x100a)	UDISequence	SQ
(0x0018,0x1030)	ProtocolName	LO
(0x0018,0x1314)	FlipAngle	DS

(0x0018,0x2010)	NominalScannedPixelSpacing	DS
(0x0020,0x000d)	StudyInstanceUID	UI
(0x0020,0x000e)	SeriesInstanceUID	UI
(0x0020,0x0010)	StudyID	SH
(0x0020,0x0011)	SeriesNumber	IS
(0x0020,0x0013)	InstanceNumber	IS
(0x0020,0x0020)	PatientOrientation	CS
(0x0020,0x0032)	ImagePositionPatient	DS
(0x0020,0x0037)	ImageOrientationPatient	DS
(0x0020,0x0052)	FrameOfReferenceUID	UI
(0x0020,0x0105)	NumberOfTemporalPositions	IS
(0x0020,0x1002)	ImagesInAcquisition	IS
(0x0020,0x1041)	SliceLocation	DS
(0x0028,0x0002)	SamplesPerPixel	US
(0x0028,0x0004)	PhotometricInterpretation	CS
(0x0028,0x0006)	PlanarConfiguration	US
(0x0028,0x0010)	Rows	US
(0x0028,0x0011)	Columns	US
(0x0028,0x0030)	PixelSpacing	DS
(0x0028,0x0100)	BitsAllocated	US
(0x0028,0x0101)	BitsStored	US
(0x0028,0x0102)	HighBit	US
(0x0028,0x0103)	PixelRepresentation	US
(0x0028,0x1050)	WindowCenter	DS
(0x0028,0x1051)	WindowWidth	DS
(0x0028,0x1054)	RescaleType	LO
(0x0061,0x0010)	PrivateCreator	LO
(0x0061,0x1001)	CMN JSON Structure	OB
(0x7fe0,0x0010)	PixelData	OB
Series: mr-pwi-dce		
(0x0008,0x0005)	SpecificCharacterSet	CS
(0x0008,0x0008)	ImageType	CS
(0x0008,0x0016)	SOPClassUID	UI
(0x0008,0x0018)	SOPInstanceUID	UI

(0x0008,0x0020)	StudyDate	DA
(0x0008,0x0021)	SeriesDate	DA
(0x0008,0x0022)	AcquisitionDate	DA
(0x0008,0x0030)	StudyTime	TM
(0x0008,0x0031)	SeriesTime	TM
(0x0008,0x0032)	AcquisitionTime	TM
(0x0008,0x0033)	ContentTime	TM
(0x0008,0x0050)	AccessionNumber	SH
(0x0008,0x0060)	Modality	CS
(0x0008,0x0070)	Manufacturer	LO
(0x0008,0x0080)	InstitutionName	LO
(0x0008,0x0090)	ReferringPhysicianName	PN
(0x0008,0x0201)	TimezoneOffsetFromUTC	SH
(0x0008,0x1010)	StationName	SH
(0x0008,0x1030)	StudyDescription	LO
(0x0008,0x103e)	SeriesDescription	LO
(0x0008,0x1040)	InstitutionalDepartmentName	LO
(0x0008,0x1090)	ManufacturerModelName	LO
(0x0008,0x2111)	DerivationDescription	ST
(0x0010,0x0010)	PatientName	PN
(0x0010,0x0020)	PatientID	LO
(0x0010,0x0030)	PatientBirthDate	DA
(0x0010,0x0040)	PatientSex	CS
(0x0010,0x1010)	PatientAge	AS
(0x0018,0x0010)	ContrastBolusAgent	LO
(0x0018,0x0050)	SliceThickness	DS
(0x0018,0x0080)	RepetitionTime	DS
(0x0018,0x0081)	EchoTime	DS
(0x0018,0x0088)	SpacingBetweenSlices	DS
(0x0018,0x1009)	UniqueDeviceIdentifier	UT
(0x0018,0x100a)	UDISequence	SQ
(0x0018,0x1030)	ProtocolName	LO
(0x0018,0x1060)	TriggerTime	DS
(0x0018,0x1314)	FlipAngle	DS

(0x0020,0x000d)	StudyInstanceUID	UI
(0x0020,0x000e)	SeriesInstanceUID	UI
(0x0020,0x0010)	StudyID	SH
(0x0020,0x0011)	SeriesNumber	IS
(0x0020,0x0012)	AcquisitionNumber	IS
(0x0020,0x0013)	InstanceNumber	IS
(0x0020,0x0032)	ImagePositionPatient	DS
(0x0020,0x0037)	ImageOrientationPatient	DS
(0x0020,0x0052)	FrameOfReferenceUID	UI
(0x0020,0x0105)	NumberOfTemporalPositions	IS
(0x0020,0x1002)	ImagesInAcquisition	IS
(0x0020,0x1041)	SliceLocation	DS
(0x0020,0x9128)	TemporalPositionIndex	UL
(0x0028,0x0002)	SamplesPerPixel	US
(0x0028,0x0004)	PhotometricInterpretation	CS
(0x0028,0x0010)	Rows	US
(0x0028,0x0011)	Columns	US
(0x0028,0x0030)	PixelSpacing	DS
(0x0028,0x0100)	BitsAllocated	US
(0x0028,0x0101)	BitsStored	US
(0x0028,0x0102)	HighBit	US
(0x0028,0x0103)	PixelRepresentation	US
(0x0028,0x0106)	SmallestImagePixelValue	US
(0x0028,0x0107)	LargestImagePixelValue	US
(0x0028,0x1050)	WindowCenter	DS
(0x0028,0x1051)	WindowWidth	DS
(0x0028,0x1052)	RescaleIntercept	DS
(0x0028,0x1053)	RescaleSlope	DS
(0x0028,0x1054)	RescaleType	LO
(0x0061,0x0010)	PrivateCreator	LO
(0x0061,0x1001)	CMN JSON Structure	OB
(0x7fe0,0x0010)	PixelData	OB
Series: mr-pwi-dce-brain-mask		
(0x0008,0x0005)	SpecificCharacterSet	CS

(0x0008,0x0008)	ImageType	CS
(0x0008,0x0016)	SOPClassUID	UI
(0x0008,0x0018)	SOPInstanceUID	UI
(0x0008,0x0020)	StudyDate	DA
(0x0008,0x0021)	SeriesDate	DA
(0x0008,0x0022)	AcquisitionDate	DA
(0x0008,0x0030)	StudyTime	TM
(0x0008,0x0031)	SeriesTime	TM
(0x0008,0x0032)	AcquisitionTime	TM
(0x0008,0x0050)	AccessionNumber	SH
(0x0008,0x0060)	Modality	CS
(0x0008,0x0070)	Manufacturer	LO
(0x0008,0x0080)	InstitutionName	LO
(0x0008,0x0090)	ReferringPhysicianName	PN
(0x0008,0x0201)	TimezoneOffsetFromUTC	SH
(0x0008,0x1010)	StationName	SH
(0x0008,0x1030)	StudyDescription	LO
(0x0008,0x103e)	SeriesDescription	LO
(0x0008,0x1040)	InstitutionalDepartmentName	LO
(0x0008,0x1090)	ManufacturerModelName	LO
(0x0008,0x2111)	DerivationDescription	ST
(0x0010,0x0010)	PatientName	PN
(0x0010,0x0020)	PatientID	LO
(0x0010,0x0030)	PatientBirthDate	DA
(0x0010,0x0040)	PatientSex	CS
(0x0010,0x1010)	PatientAge	AS
(0x0018,0x0010)	ContrastBolusAgent	LO
(0x0018,0x0050)	SliceThickness	DS
(0x0018,0x0080)	RepetitionTime	DS
(0x0018,0x0081)	EchoTime	DS
(0x0018,0x0088)	SpacingBetweenSlices	DS
(0x0018,0x1009)	UniqueDeviceIdentifier	UT
(0x0018,0x100a)	UDISequence	SQ
(0x0018,0x1030)	ProtocolName	LO

(0x0018,0x1314)	FlipAngle	DS
(0x0020,0x000d)	StudyInstanceUID	UI
(0x0020,0x000e)	SeriesInstanceUID	UI
(0x0020,0x0010)	StudyID	SH
(0x0020,0x0011)	SeriesNumber	IS
(0x0020,0x0013)	InstanceNumber	IS
(0x0020,0x0032)	ImagePositionPatient	DS
(0x0020,0x0037)	ImageOrientationPatient	DS
(0x0020,0x0052)	FrameOfReferenceUID	UI
(0x0020,0x0105)	NumberOfTemporalPositions	IS
(0x0020,0x1002)	ImagesInAcquisition	IS
(0x0020,0x1041)	SliceLocation	DS
(0x0020,0x9128)	TemporalPositionIndex	UL
(0x0028,0x0002)	SamplesPerPixel	US
(0x0028,0x0004)	PhotometricInterpretation	CS
(0x0028,0x0010)	Rows	US
(0x0028,0x0011)	Columns	US
(0x0028,0x0030)	PixelSpacing	DS
(0x0028,0x0100)	BitsAllocated	US
(0x0028,0x0101)	BitsStored	US
(0x0028,0x0102)	HighBit	US
(0x0028,0x0103)	PixelRepresentation	US
(0x0028,0x0106)	SmallestImagePixelValue	US
(0x0028,0x0107)	LargestImagePixelValue	US
(0x0028,0x1050)	WindowCenter	DS
(0x0028,0x1051)	WindowWidth	DS
(0x0028,0x1052)	RescaleIntercept	DS
(0x0028,0x1053)	RescaleSlope	DS
(0x0028,0x1054)	RescaleType	LO
(0x0061,0x0010)	PrivateCreator	LO
(0x0061,0x1001)	CMN JSON Structure	OB
(0x7fe0,0x0010)	PixelData	OB
Series: mr-pwi-dsc		
(0x0008,0x0005)	SpecificCharacterSet	CS

(0x0008,0x0008)	ImageType	CS
(0x0008,0x0016)	SOPClassUID	UI
(0x0008,0x0018)	SOPInstanceUID	UI
(0x0008,0x0020)	StudyDate	DA
(0x0008,0x0021)	SeriesDate	DA
(0x0008,0x0022)	AcquisitionDate	DA
(0x0008,0x0030)	StudyTime	TM
(0x0008,0x0031)	SeriesTime	TM
(0x0008,0x0032)	AcquisitionTime	TM
(0x0008,0x0033)	ContentTime	TM
(0x0008,0x0050)	AccessionNumber	SH
(0x0008,0x0060)	Modality	CS
(0x0008,0x0070)	Manufacturer	LO
(0x0008,0x0080)	InstitutionName	LO
(0x0008,0x0090)	ReferringPhysicianName	PN
(0x0008,0x0201)	TimezoneOffsetFromUTC	SH
(0x0008,0x1010)	StationName	SH
(0x0008,0x1030)	StudyDescription	LO
(0x0008,0x103e)	SeriesDescription	LO
(0x0008,0x1040)	InstitutionalDepartmentName	LO
(0x0008,0x1090)	ManufacturerModelName	LO
(0x0008,0x2111)	DerivationDescription	ST
(0x0010,0x0010)	PatientName	PN
(0x0010,0x0020)	PatientID	LO
(0x0010,0x0030)	PatientBirthDate	DA
(0x0010,0x0040)	PatientSex	CS
(0x0010,0x1010)	PatientAge	AS
(0x0018,0x0010)	ContrastBolusAgent	LO
(0x0018,0x0050)	SliceThickness	DS
(0x0018,0x0080)	RepetitionTime	DS
(0x0018,0x0081)	EchoTime	DS
(0x0018,0x0082)	InversionTime	DS
(0x0018,0x0088)	SpacingBetweenSlices	DS
(0x0018,0x1009)	UniqueDeviceIdentifier	UT

(0x0018,0x100a)	UDISequence	SQ
(0x0018,0x1030)	ProtocolName	LO
(0x0018,0x1060)	TriggerTime	DS
(0x0018,0x1314)	FlipAngle	DS
(0x0020,0x000d)	StudyInstanceUID	UI
(0x0020,0x000e)	SeriesInstanceUID	UI
(0x0020,0x0010)	StudyID	SH
(0x0020,0x0011)	SeriesNumber	IS
(0x0020,0x0012)	AcquisitionNumber	IS
(0x0020,0x0013)	InstanceNumber	IS
(0x0020,0x0032)	ImagePositionPatient	DS
(0x0020,0x0037)	ImageOrientationPatient	DS
(0x0020,0x0052)	FrameOfReferenceUID	UI
(0x0020,0x0105)	NumberOfTemporalPositions	IS
(0x0020,0x1002)	ImagesInAcquisition	IS
(0x0020,0x1041)	SliceLocation	DS
(0x0020,0x9128)	TemporalPositionIndex	UL
(0x0028,0x0002)	SamplesPerPixel	US
(0x0028,0x0004)	PhotometricInterpretation	CS
(0x0028,0x0010)	Rows	US
(0x0028,0x0011)	Columns	US
(0x0028,0x0030)	PixelSpacing	DS
(0x0028,0x0100)	BitsAllocated	US
(0x0028,0x0101)	BitsStored	US
(0x0028,0x0102)	HighBit	US
(0x0028,0x0103)	PixelRepresentation	US
(0x0028,0x0106)	SmallestImagePixelValue	US
(0x0028,0x0107)	LargestImagePixelValue	US
(0x0028,0x1050)	WindowCenter	DS
(0x0028,0x1051)	WindowWidth	DS
(0x0028,0x1052)	RescaleIntercept	DS
(0x0028,0x1053)	RescaleSlope	DS
(0x0028,0x1054)	RescaleType	LO
(0x0061,0x0010)	PrivateCreator	LO

(0x0061,0x1001)	CMN JSON Structure	OB
(0x7fe0,0x0010)	PixelData	OB
Series: mr-pwi-dsc-brain-mask		
(0x0008,0x0005)	SpecificCharacterSet	CS
(0x0008,0x0008)	ImageType	CS
(0x0008,0x0016)	SOPClassUID	UI
(0x0008,0x0018)	SOPInstanceUID	UI
(0x0008,0x0020)	StudyDate	DA
(0x0008,0x0021)	SeriesDate	DA
(0x0008,0x0022)	AcquisitionDate	DA
(0x0008,0x0030)	StudyTime	TM
(0x0008,0x0031)	SeriesTime	TM
(0x0008,0x0032)	AcquisitionTime	TM
(0x0008,0x0050)	AccessionNumber	SH
(0x0008,0x0060)	Modality	CS
(0x0008,0x0070)	Manufacturer	LO
(0x0008,0x0080)	InstitutionName	LO
(0x0008,0x0090)	ReferringPhysicianName	PN
(0x0008,0x0201)	TimezoneOffsetFromUTC	SH
(0x0008,0x1010)	StationName	SH
(0x0008,0x1030)	StudyDescription	LO
(0x0008,0x103e)	SeriesDescription	LO
(0x0008,0x1040)	InstitutionalDepartmentName	LO
(0x0008,0x1090)	ManufacturerModelName	LO
(0x0008,0x2111)	DerivationDescription	ST
(0x0010,0x0010)	PatientName	PN
(0x0010,0x0020)	PatientID	LO
(0x0010,0x0030)	PatientBirthDate	DA
(0x0010,0x0040)	PatientSex	CS
(0x0010,0x1010)	PatientAge	AS
(0x0018,0x0010)	ContrastBolusAgent	LO
(0x0018,0x0050)	SliceThickness	DS
(0x0018,0x0080)	RepetitionTime	DS
(0x0018,0x0081)	EchoTime	DS

(0x0018,0x0082)	InversionTime	DS
(0x0018,0x0088)	SpacingBetweenSlices	DS
(0x0018,0x1009)	UniqueDeviceIdentifier	UT
(0x0018,0x100a)	UDISequence	SQ
(0x0018,0x1030)	ProtocolName	LO
(0x0018,0x1314)	FlipAngle	DS
(0x0020,0x000d)	StudyInstanceUID	UI
(0x0020,0x000e)	SeriesInstanceUID	UI
(0x0020,0x0010)	StudyID	SH
(0x0020,0x0011)	SeriesNumber	IS
(0x0020,0x0013)	InstanceNumber	IS
(0x0020,0x0032)	ImagePositionPatient	DS
(0x0020,0x0037)	ImageOrientationPatient	DS
(0x0020,0x0052)	FrameOfReferenceUID	UI
(0x0020,0x0105)	NumberOfTemporalPositions	IS
(0x0020,0x1002)	ImagesInAcquisition	IS
(0x0020,0x1041)	SliceLocation	DS
(0x0020,0x9128)	TemporalPositionIndex	UL
(0x0028,0x0002)	SamplesPerPixel	US
(0x0028,0x0004)	PhotometricInterpretation	CS
(0x0028,0x0010)	Rows	US
(0x0028,0x0011)	Columns	US
(0x0028,0x0030)	PixelSpacing	DS
(0x0028,0x0100)	BitsAllocated	US
(0x0028,0x0101)	BitsStored	US
(0x0028,0x0102)	HighBit	US
(0x0028,0x0103)	PixelRepresentation	US
(0x0028,0x0106)	SmallestImagePixelValue	US
(0x0028,0x0107)	LargestImagePixelValue	US
(0x0028,0x1050)	WindowCenter	DS
(0x0028,0x1051)	WindowWidth	DS
(0x0028,0x1052)	RescaleIntercept	DS
(0x0028,0x1053)	RescaleSlope	DS
(0x0028,0x1054)	RescaleType	LO

(0x0061,0x0010)	PrivateCreator	LO
(0x0061,0x1001)	CMN JSON Structure	OB
(0x7fe0,0x0010)	PixelData	OB
Series: mr-t1		
(0x0008,0x0005)	SpecificCharacterSet	CS
(0x0008,0x0008)	ImageType	CS
(0x0008,0x0016)	SOPClassUID	UI
(0x0008,0x0018)	SOPInstanceUID	UI
(0x0008,0x0020)	StudyDate	DA
(0x0008,0x0021)	SeriesDate	DA
(0x0008,0x0022)	AcquisitionDate	DA
(0x0008,0x0030)	StudyTime	TM
(0x0008,0x0031)	SeriesTime	TM
(0x0008,0x0032)	AcquisitionTime	TM
(0x0008,0x0050)	AccessionNumber	SH
(0x0008,0x0060)	Modality	CS
(0x0008,0x0070)	Manufacturer	LO
(0x0008,0x0080)	InstitutionName	LO
(0x0008,0x0090)	ReferringPhysicianName	PN
(0x0008,0x0201)	TimezoneOffsetFromUTC	SH
(0x0008,0x1010)	StationName	SH
(0x0008,0x1030)	StudyDescription	LO
(0x0008,0x103e)	SeriesDescription	LO
(0x0008,0x1040)	InstitutionalDepartmentName	LO
(0x0008,0x1090)	ManufacturerModelName	LO
(0x0008,0x2111)	DerivationDescription	ST
(0x0010,0x0010)	PatientName	PN
(0x0010,0x0020)	PatientID	LO
(0x0010,0x0030)	PatientBirthDate	DA
(0x0010,0x0040)	PatientSex	CS
(0x0010,0x1010)	PatientAge	AS
(0x0018,0x0050)	SliceThickness	DS
(0x0018,0x0080)	RepetitionTime	DS
(0x0018,0x0081)	EchoTime	DS

(0x0018,0x0082)	InversionTime	DS
(0x0018,0x0088)	SpacingBetweenSlices	DS
(0x0018,0x1009)	UniqueDeviceIdentifier	UT
(0x0018,0x100a)	UDISequence	SQ
(0x0018,0x1030)	ProtocolName	LO
(0x0018,0x1314)	FlipAngle	DS
(0x0020,0x000d)	StudyInstanceUID	UI
(0x0020,0x000e)	SeriesInstanceUID	UI
(0x0020,0x0010)	StudyID	SH
(0x0020,0x0011)	SeriesNumber	IS
(0x0020,0x0013)	InstanceNumber	IS
(0x0020,0x0032)	ImagePositionPatient	DS
(0x0020,0x0037)	ImageOrientationPatient	DS
(0x0020,0x0052)	FrameOfReferenceUID	UI
(0x0020,0x0105)	NumberOfTemporalPositions	IS
(0x0020,0x1002)	ImagesInAcquisition	IS
(0x0020,0x1041)	SliceLocation	DS
(0x0020,0x9128)	TemporalPositionIndex	UL
(0x0028,0x0002)	SamplesPerPixel	US
(0x0028,0x0004)	PhotometricInterpretation	CS
(0x0028,0x0010)	Rows	US
(0x0028,0x0011)	Columns	US
(0x0028,0x0030)	PixelSpacing	DS
(0x0028,0x0100)	BitsAllocated	US
(0x0028,0x0101)	BitsStored	US
(0x0028,0x0102)	HighBit	US
(0x0028,0x0103)	PixelRepresentation	US
(0x0028,0x0106)	SmallestImagePixelValue	US
(0x0028,0x0107)	LargestImagePixelValue	US
(0x0028,0x1050)	WindowCenter	DS
(0x0028,0x1051)	WindowWidth	DS
(0x0028,0x1052)	RescaleIntercept	DS
(0x0028,0x1053)	RescaleSlope	DS
(0x0028,0x1054)	RescaleType	LO

(0x0061,0x0010)	PrivateCreator	LO
(0x0061,0x1001)	CMN JSON Structure	OB
(0x7fe0,0x0010)	PixelData	OB
Series: mr-t1-contrast		
(0x0008,0x0005)	SpecificCharacterSet	CS
(0x0008,0x0008)	ImageType	CS
(0x0008,0x0016)	SOPClassUID	UI
(0x0008,0x0018)	SOPInstanceUID	UI
(0x0008,0x0020)	StudyDate	DA
(0x0008,0x0021)	SeriesDate	DA
(0x0008,0x0022)	AcquisitionDate	DA
(0x0008,0x0030)	StudyTime	TM
(0x0008,0x0031)	SeriesTime	TM
(0x0008,0x0032)	AcquisitionTime	TM
(0x0008,0x0050)	AccessionNumber	SH
(0x0008,0x0060)	Modality	CS
(0x0008,0x0070)	Manufacturer	LO
(0x0008,0x0080)	InstitutionName	LO
(0x0008,0x0090)	ReferringPhysicianName	PN
(0x0008,0x0201)	TimezoneOffsetFromUTC	SH
(0x0008,0x1010)	StationName	SH
(0x0008,0x1030)	StudyDescription	LO
(0x0008,0x103e)	SeriesDescription	LO
(0x0008,0x1040)	InstitutionalDepartmentName	LO
(0x0008,0x1090)	ManufacturerModelName	LO
(0x0008,0x2111)	DerivationDescription	ST
(0x0010,0x0010)	PatientName	PN
(0x0010,0x0020)	PatientID	LO
(0x0010,0x0030)	PatientBirthDate	DA
(0x0010,0x0040)	PatientSex	CS
(0x0010,0x1010)	PatientAge	AS
(0x0018,0x0010)	ContrastBolusAgent	LO
(0x0018,0x0050)	SliceThickness	DS
(0x0018,0x0080)	RepetitionTime	DS

(0x0018,0x0081)	EchoTime	DS
(0x0018,0x0082)	InversionTime	DS
(0x0018,0x0088)	SpacingBetweenSlices	DS
(0x0018,0x1009)	UniqueDeviceIdentifier	UT
(0x0018,0x100a)	UDISequence	SQ
(0x0018,0x1030)	ProtocolName	LO
(0x0018,0x1314)	FlipAngle	DS
(0x0020,0x000d)	StudyInstanceUID	UI
(0x0020,0x000e)	SeriesInstanceUID	UI
(0x0020,0x0010)	StudyID	SH
(0x0020,0x0011)	SeriesNumber	IS
(0x0020,0x0013)	InstanceNumber	IS
(0x0020,0x0032)	ImagePositionPatient	DS
(0x0020,0x0037)	ImageOrientationPatient	DS
(0x0020,0x0052)	FrameOfReferenceUID	UI
(0x0020,0x0105)	NumberOfTemporalPositions	IS
(0x0020,0x1002)	ImagesInAcquisition	IS
(0x0020,0x1041)	SliceLocation	DS
(0x0020,0x9128)	TemporalPositionIndex	UL
(0x0028,0x0002)	SamplesPerPixel	US
(0x0028,0x0004)	PhotometricInterpretation	CS
(0x0028,0x0010)	Rows	US
(0x0028,0x0011)	Columns	US
(0x0028,0x0030)	PixelSpacing	DS
(0x0028,0x0100)	BitsAllocated	US
(0x0028,0x0101)	BitsStored	US
(0x0028,0x0102)	HighBit	US
(0x0028,0x0103)	PixelRepresentation	US
(0x0028,0x0106)	SmallestImagePixelValue	US
(0x0028,0x0107)	LargestImagePixelValue	US
(0x0028,0x1050)	WindowCenter	DS
(0x0028,0x1051)	WindowWidth	DS
(0x0028,0x1052)	RescaleIntercept	DS
(0x0028,0x1053)	RescaleSlope	DS

(0x0028,0x1054)	RescaleType	LO
(0x0061,0x0010)	PrivateCreator	LO
(0x0061,0x1001)	CMN JSON Structure	OB
(0x7fe0,0x0010)	PixelData	OB
Series: mr-t2flair		
(0x0008,0x0005)	SpecificCharacterSet	CS
(0x0008,0x0008)	ImageType	CS
(0x0008,0x0016)	SOPClassUID	UI
(0x0008,0x0018)	SOPInstanceUID	UI
(0x0008,0x0020)	StudyDate	DA
(0x0008,0x0021)	SeriesDate	DA
(0x0008,0x0022)	AcquisitionDate	DA
(0x0008,0x0030)	StudyTime	TM
(0x0008,0x0031)	SeriesTime	TM
(0x0008,0x0032)	AcquisitionTime	TM
(0x0008,0x0050)	AccessionNumber	SH
(0x0008,0x0060)	Modality	CS
(0x0008,0x0070)	Manufacturer	LO
(0x0008,0x0080)	InstitutionName	LO
(0x0008,0x0090)	ReferringPhysicianName	PN
(0x0008,0x0201)	TimezoneOffsetFromUTC	SH
(0x0008,0x1010)	StationName	SH
(0x0008,0x1030)	StudyDescription	LO
(0x0008,0x103e)	SeriesDescription	LO
(0x0008,0x1040)	InstitutionalDepartmentName	LO
(0x0008,0x1090)	ManufacturerModelName	LO
(0x0008,0x2111)	DerivationDescription	ST
(0x0010,0x0010)	PatientName	PN
(0x0010,0x0020)	PatientID	LO
(0x0010,0x0030)	PatientBirthDate	DA
(0x0010,0x0040)	PatientSex	CS
(0x0010,0x1010)	PatientAge	AS
(0x0018,0x0050)	SliceThickness	DS
(0x0018,0x0080)	RepetitionTime	DS

(0x0018,0x0081)	EchoTime	DS
(0x0018,0x0082)	InversionTime	DS
(0x0018,0x0088)	SpacingBetweenSlices	DS
(0x0018,0x1009)	UniqueDeviceIdentifier	UT
(0x0018,0x100a)	UDISequence	SQ
(0x0018,0x1030)	ProtocolName	LO
(0x0018,0x1314)	FlipAngle	DS
(0x0020,0x000d)	StudyInstanceUID	UI
(0x0020,0x000e)	SeriesInstanceUID	UI
(0x0020,0x0010)	StudyID	SH
(0x0020,0x0011)	SeriesNumber	IS
(0x0020,0x0013)	InstanceNumber	IS
(0x0020,0x0032)	ImagePositionPatient	DS
(0x0020,0x0037)	ImageOrientationPatient	DS
(0x0020,0x0052)	FrameOfReferenceUID	UI
(0x0020,0x0105)	NumberOfTemporalPositions	IS
(0x0020,0x1002)	ImagesInAcquisition	IS
(0x0020,0x1041)	SliceLocation	DS
(0x0020,0x9128)	TemporalPositionIndex	UL
(0x0028,0x0002)	SamplesPerPixel	US
(0x0028,0x0004)	PhotometricInterpretation	CS
(0x0028,0x0010)	Rows	US
(0x0028,0x0011)	Columns	US
(0x0028,0x0030)	PixelSpacing	DS
(0x0028,0x0100)	BitsAllocated	US
(0x0028,0x0101)	BitsStored	US
(0x0028,0x0102)	HighBit	US
(0x0028,0x0103)	PixelRepresentation	US
(0x0028,0x0106)	SmallestImagePixelValue	US
(0x0028,0x0107)	LargestImagePixelValue	US
(0x0028,0x1050)	WindowCenter	DS
(0x0028,0x1051)	WindowWidth	DS
(0x0028,0x1052)	RescaleIntercept	DS
(0x0028,0x1053)	RescaleSlope	DS

(0x0028,0x1054)	RescaleType	LO
(0x0061,0x0010)	PrivateCreator	LO
(0x0061,0x1001)	CMN JSON Structure	OB
(0x7fe0,0x0010)	PixelData	OB
Series: overlay		
(0x0008,0x0005)	SpecificCharacterSet	CS
(0x0008,0x0008)	ImageType	CS
(0x0008,0x0016)	SOPClassUID	UI
(0x0008,0x0018)	SOPInstanceUID	UI
(0x0008,0x0020)	StudyDate	DA
(0x0008,0x0021)	SeriesDate	DA
(0x0008,0x0022)	AcquisitionDate	DA
(0x0008,0x002a)	AcquisitionDateTime	DT
(0x0008,0x0030)	StudyTime	TM
(0x0008,0x0031)	SeriesTime	TM
(0x0008,0x0032)	AcquisitionTime	TM
(0x0008,0x0050)	AccessionNumber	SH
(0x0008,0x0060)	Modality	CS
(0x0008,0x0064)	ConversionType	CS
(0x0008,0x0070)	Manufacturer	LO
(0x0008,0x0080)	InstitutionName	LO
(0x0008,0x0090)	ReferringPhysicianName	PN
(0x0008,0x0201)	TimezoneOffsetFromUTC	SH
(0x0008,0x1010)	StationName	SH
(0x0008,0x1030)	StudyDescription	LO
(0x0008,0x103e)	SeriesDescription	LO
(0x0008,0x1040)	InstitutionalDepartmentName	LO
(0x0008,0x1090)	ManufacturerModelName	LO
(0x0008,0x2111)	DerivationDescription	ST
(0x0010,0x0010)	PatientName	PN
(0x0010,0x0020)	PatientID	LO
(0x0010,0x0030)	PatientBirthDate	DA
(0x0010,0x0040)	PatientSex	CS
(0x0010,0x1010)	PatientAge	AS

(0x0018,0x0050)	SliceThickness	DS
(0x0018,0x0080)	RepetitionTime	DS
(0x0018,0x0081)	EchoTime	DS
(0x0018,0x0082)	InversionTime	DS
(0x0018,0x0088)	SpacingBetweenSlices	DS
(0x0018,0x1009)	UniqueDeviceIdentifier	UT
(0x0018,0x100a)	UDISequence	SQ
(0x0018,0x1030)	ProtocolName	LO
(0x0018,0x1314)	FlipAngle	DS
(0x0018,0x2010)	NominalScannedPixelSpacing	DS
(0x0020,0x000d)	StudyInstanceUID	UI
(0x0020,0x000e)	SeriesInstanceUID	UI
(0x0020,0x0010)	StudyID	SH
(0x0020,0x0011)	SeriesNumber	IS
(0x0020,0x0013)	InstanceNumber	IS
(0x0020,0x0020)	PatientOrientation	CS
(0x0020,0x0032)	ImagePositionPatient	DS
(0x0020,0x0037)	ImageOrientationPatient	DS
(0x0020,0x0052)	FrameOfReferenceUID	UI
(0x0020,0x0105)	NumberOfTemporalPositions	IS
(0x0020,0x1002)	ImagesInAcquisition	IS
(0x0020,0x1041)	SliceLocation	DS
(0x0028,0x0002)	SamplesPerPixel	US
(0x0028,0x0004)	PhotometricInterpretation	CS
(0x0028,0x0006)	PlanarConfiguration	US
(0x0028,0x0010)	Rows	US
(0x0028,0x0011)	Columns	US
(0x0028,0x0030)	PixelSpacing	DS
(0x0028,0x0100)	BitsAllocated	US
(0x0028,0x0101)	BitsStored	US
(0x0028,0x0102)	HighBit	US
(0x0028,0x0103)	PixelRepresentation	US
(0x0028,0x1050)	WindowCenter	DS
(0x0028,0x1051)	WindowWidth	DS

(0x0028,0x1054)	RescaleType	LO
(0x0061,0x0010)	PrivateCreator	LO
(0x0061,0x1001)	CMN JSON Structure	OB
(0x7fe0,0x0010)	PixelData	OB
Series: parametric-cbf		
(0x0008,0x0005)	SpecificCharacterSet	CS
(0x0008,0x0008)	ImageType	CS
(0x0008,0x0016)	SOPClassUID	UI
(0x0008,0x0018)	SOPInstanceUID	UI
(0x0008,0x0020)	StudyDate	DA
(0x0008,0x0021)	SeriesDate	DA
(0x0008,0x0022)	AcquisitionDate	DA
(0x0008,0x002a)	AcquisitionDateTime	DT
(0x0008,0x0030)	StudyTime	TM
(0x0008,0x0031)	SeriesTime	TM
(0x0008,0x0032)	AcquisitionTime	TM
(0x0008,0x0050)	AccessionNumber	SH
(0x0008,0x0060)	Modality	CS
(0x0008,0x0064)	ConversionType	CS
(0x0008,0x0070)	Manufacturer	LO
(0x0008,0x0080)	InstitutionName	LO
(0x0008,0x0090)	ReferringPhysicianName	PN
(0x0008,0x0201)	TimezoneOffsetFromUTC	SH
(0x0008,0x1010)	StationName	SH
(0x0008,0x1030)	StudyDescription	LO
(0x0008,0x103e)	SeriesDescription	LO
(0x0008,0x1040)	InstitutionalDepartmentName	LO
(0x0008,0x1090)	ManufacturerModelName	LO
(0x0008,0x2111)	DerivationDescription	ST
(0x0010,0x0010)	PatientName	PN
(0x0010,0x0020)	PatientID	LO
(0x0010,0x0030)	PatientBirthDate	DA
(0x0010,0x0040)	PatientSex	CS
(0x0010,0x1010)	PatientAge	AS

(0x0018,0x0010)	ContrastBolusAgent	LO
(0x0018,0x0050)	SliceThickness	DS
(0x0018,0x0080)	RepetitionTime	DS
(0x0018,0x0081)	EchoTime	DS
(0x0018,0x0082)	InversionTime	DS
(0x0018,0x0088)	SpacingBetweenSlices	DS
(0x0018,0x1009)	UniqueDeviceIdentifier	UT
(0x0018,0x100a)	UDISequence	SQ
(0x0018,0x1030)	ProtocolName	LO
(0x0018,0x1314)	FlipAngle	DS
(0x0018,0x2010)	NominalScannedPixelSpacing	DS
(0x0020,0x000d)	StudyInstanceUID	UI
(0x0020,0x000e)	SeriesInstanceUID	UI
(0x0020,0x0010)	StudyID	SH
(0x0020,0x0011)	SeriesNumber	IS
(0x0020,0x0013)	InstanceNumber	IS
(0x0020,0x0020)	PatientOrientation	CS
(0x0020,0x0032)	ImagePositionPatient	DS
(0x0020,0x0037)	ImageOrientationPatient	DS
(0x0020,0x0052)	FrameOfReferenceUID	UI
(0x0020,0x0105)	NumberOfTemporalPositions	IS
(0x0020,0x1002)	ImagesInAcquisition	IS
(0x0020,0x1041)	SliceLocation	DS
(0x0020,0x9128)	TemporalPositionIndex	UL
(0x0028,0x0002)	SamplesPerPixel	US
(0x0028,0x0004)	PhotometricInterpretation	CS
(0x0028,0x0006)	PlanarConfiguration	US
(0x0028,0x0010)	Rows	US
(0x0028,0x0011)	Columns	US
(0x0028,0x0030)	PixelSpacing	DS
(0x0028,0x0100)	BitsAllocated	US
(0x0028,0x0101)	BitsStored	US
(0x0028,0x0102)	HighBit	US
(0x0028,0x0103)	PixelRepresentation	US

(0x0028,0x0106)	SmallestImagePixelValue	US
(0x0028,0x0107)	LargestImagePixelValue	US
(0x0028,0x1050)	WindowCenter	DS
(0x0028,0x1051)	WindowWidth	DS
(0x0028,0x1052)	RescaleIntercept	DS
(0x0028,0x1053)	RescaleSlope	DS
(0x0028,0x1054)	RescaleType	LO
(0x0061,0x0010)	PrivateCreator	LO
(0x0061,0x1001)	CMN JSON Structure	OB
(0x7fe0,0x0010)	PixelData	OB
Series: parametric-cbv		
(0x0008,0x0005)	SpecificCharacterSet	CS
(0x0008,0x0008)	ImageType	CS
(0x0008,0x0016)	SOPClassUID	UI
(0x0008,0x0018)	SOPInstanceUID	UI
(0x0008,0x0020)	StudyDate	DA
(0x0008,0x0021)	SeriesDate	DA
(0x0008,0x0022)	AcquisitionDate	DA
(0x0008,0x002a)	AcquisitionDateTime	DT
(0x0008,0x0030)	StudyTime	TM
(0x0008,0x0031)	SeriesTime	TM
(0x0008,0x0032)	AcquisitionTime	TM
(0x0008,0x0050)	AccessionNumber	SH
(0x0008,0x0060)	Modality	CS
(0x0008,0x0070)	Manufacturer	LO
(0x0008,0x0080)	InstitutionName	LO
(0x0008,0x0090)	ReferringPhysicianName	PN
(0x0008,0x0201)	TimezoneOffsetFromUTC	SH
(0x0008,0x1010)	StationName	SH
(0x0008,0x1030)	StudyDescription	LO
(0x0008,0x103e)	SeriesDescription	LO
(0x0008,0x1040)	InstitutionalDepartmentName	LO
(0x0008,0x1090)	ManufacturerModelName	LO
(0x0008,0x2111)	DerivationDescription	ST

(0x0010,0x0010)	PatientName	PN
(0x0010,0x0020)	PatientID	LO
(0x0010,0x0030)	PatientBirthDate	DA
(0x0010,0x0040)	PatientSex	CS
(0x0010,0x1010)	PatientAge	AS
(0x0018,0x0010)	ContrastBolusAgent	LO
(0x0018,0x0050)	SliceThickness	DS
(0x0018,0x0080)	RepetitionTime	DS
(0x0018,0x0081)	EchoTime	DS
(0x0018,0x0082)	InversionTime	DS
(0x0018,0x0088)	SpacingBetweenSlices	DS
(0x0018,0x1009)	UniqueDeviceIdentifier	UT
(0x0018,0x100a)	UDISequence	SQ
(0x0018,0x1030)	ProtocolName	LO
(0x0018,0x1314)	FlipAngle	DS
(0x0020,0x000d)	StudyInstanceUID	UI
(0x0020,0x000e)	SeriesInstanceUID	UI
(0x0020,0x0010)	StudyID	SH
(0x0020,0x0011)	SeriesNumber	IS
(0x0020,0x0013)	InstanceNumber	IS
(0x0020,0x0032)	ImagePositionPatient	DS
(0x0020,0x0037)	ImageOrientationPatient	DS
(0x0020,0x0052)	FrameOfReferenceUID	UI
(0x0020,0x0105)	NumberOfTemporalPositions	IS
(0x0020,0x1002)	ImagesInAcquisition	IS
(0x0020,0x1041)	SliceLocation	DS
(0x0020,0x9128)	TemporalPositionIndex	UL
(0x0028,0x0002)	SamplesPerPixel	US
(0x0028,0x0004)	PhotometricInterpretation	CS
(0x0028,0x0010)	Rows	US
(0x0028,0x0011)	Columns	US
(0x0028,0x0030)	PixelSpacing	DS
(0x0028,0x0100)	BitsAllocated	US
(0x0028,0x0101)	BitsStored	US

(0x0028,0x0102)	HighBit	US
(0x0028,0x0103)	PixelRepresentation	US
(0x0028,0x0106)	SmallestImagePixelValue	US
(0x0028,0x0107)	LargestImagePixelValue	US
(0x0028,0x1050)	WindowCenter	DS
(0x0028,0x1051)	WindowWidth	DS
(0x0028,0x1052)	RescaleIntercept	DS
(0x0028,0x1053)	RescaleSlope	DS
(0x0028,0x1054)	RescaleType	LO
(0x0061,0x0010)	PrivateCreator	LO
(0x0061,0x1001)	CMN JSON Structure	OB
(0x7fe0,0x0010)	PixelData	OB
Series: parametric-cmro2		
(0x0008,0x0005)	SpecificCharacterSet	CS
(0x0008,0x0008)	ImageType	CS
(0x0008,0x0016)	SOPClassUID	UI
(0x0008,0x0018)	SOPInstanceUID	UI
(0x0008,0x0020)	StudyDate	DA
(0x0008,0x0021)	SeriesDate	DA
(0x0008,0x0022)	AcquisitionDate	DA
(0x0008,0x002a)	AcquisitionDateTime	DT
(0x0008,0x0030)	StudyTime	TM
(0x0008,0x0031)	SeriesTime	TM
(0x0008,0x0032)	AcquisitionTime	TM
(0x0008,0x0050)	AccessionNumber	SH
(0x0008,0x0060)	Modality	CS
(0x0008,0x0070)	Manufacturer	LO
(0x0008,0x0080)	InstitutionName	LO
(0x0008,0x0090)	ReferringPhysicianName	PN
(0x0008,0x0201)	TimezoneOffsetFromUTC	SH
(0x0008,0x1010)	StationName	SH
(0x0008,0x1030)	StudyDescription	LO
(0x0008,0x103e)	SeriesDescription	LO
(0x0008,0x1040)	InstitutionalDepartmentName	LO

(0x0008,0x1090)	ManufacturerModelName	LO
(0x0008,0x2111)	DerivationDescription	ST
(0x0010,0x0010)	PatientName	PN
(0x0010,0x0020)	PatientID	LO
(0x0010,0x0030)	PatientBirthDate	DA
(0x0010,0x0040)	PatientSex	CS
(0x0010,0x1010)	PatientAge	AS
(0x0018,0x0010)	ContrastBolusAgent	LO
(0x0018,0x0050)	SliceThickness	DS
(0x0018,0x0080)	RepetitionTime	DS
(0x0018,0x0081)	EchoTime	DS
(0x0018,0x0082)	InversionTime	DS
(0x0018,0x0088)	SpacingBetweenSlices	DS
(0x0018,0x1009)	UniqueDeviceIdentifier	UT
(0x0018,0x100a)	UDISequence	SQ
(0x0018,0x1030)	ProtocolName	LO
(0x0018,0x1314)	FlipAngle	DS
(0x0020,0x000d)	StudyInstanceUID	UI
(0x0020,0x000e)	SeriesInstanceUID	UI
(0x0020,0x0010)	StudyID	SH
(0x0020,0x0011)	SeriesNumber	IS
(0x0020,0x0013)	InstanceNumber	IS
(0x0020,0x0032)	ImagePositionPatient	DS
(0x0020,0x0037)	ImageOrientationPatient	DS
(0x0020,0x0052)	FrameOfReferenceUID	UI
(0x0020,0x0105)	NumberOfTemporalPositions	IS
(0x0020,0x1002)	ImagesInAcquisition	IS
(0x0020,0x1041)	SliceLocation	DS
(0x0020,0x9128)	TemporalPositionIndex	UL
(0x0028,0x0002)	SamplesPerPixel	US
(0x0028,0x0004)	PhotometricInterpretation	CS
(0x0028,0x0010)	Rows	US
(0x0028,0x0011)	Columns	US
(0x0028,0x0030)	PixelSpacing	DS

(0x0028,0x0100)	BitsAllocated	US
(0x0028,0x0101)	BitsStored	US
(0x0028,0x0102)	HighBit	US
(0x0028,0x0103)	PixelRepresentation	US
(0x0028,0x0106)	SmallestImagePixelValue	US
(0x0028,0x0107)	LargestImagePixelValue	US
(0x0028,0x1050)	WindowCenter	DS
(0x0028,0x1051)	WindowWidth	DS
(0x0028,0x1052)	RescaleIntercept	DS
(0x0028,0x1053)	RescaleSlope	DS
(0x0028,0x1054)	RescaleType	LO
(0x0061,0x0010)	PrivateCreator	LO
(0x0061,0x1001)	CMN JSON Structure	OB
(0x7fe0,0x0010)	PixelData	OB
Series: parametric-cov		
(0x0008,0x0005)	SpecificCharacterSet	CS
(0x0008,0x0008)	ImageType	CS
(0x0008,0x0016)	SOPClassUID	UI
(0x0008,0x0018)	SOPInstanceUID	UI
(0x0008,0x0020)	StudyDate	DA
(0x0008,0x0021)	SeriesDate	DA
(0x0008,0x0022)	AcquisitionDate	DA
(0x0008,0x002a)	AcquisitionDateTime	DT
(0x0008,0x0030)	StudyTime	TM
(0x0008,0x0031)	SeriesTime	TM
(0x0008,0x0032)	AcquisitionTime	TM
(0x0008,0x0050)	AccessionNumber	SH
(0x0008,0x0060)	Modality	CS
(0x0008,0x0070)	Manufacturer	LO
(0x0008,0x0080)	InstitutionName	LO
(0x0008,0x0090)	ReferringPhysicianName	PN
(0x0008,0x0201)	TimezoneOffsetFromUTC	SH
(0x0008,0x1010)	StationName	SH
(0x0008,0x1030)	StudyDescription	LO

(0x0008,0x103e)	SeriesDescription	LO
(0x0008,0x1040)	InstitutionalDepartmentName	LO
(0x0008,0x1090)	ManufacturerModelName	LO
(0x0008,0x2111)	DerivationDescription	ST
(0x0010,0x0010)	PatientName	PN
(0x0010,0x0020)	PatientID	LO
(0x0010,0x0030)	PatientBirthDate	DA
(0x0010,0x0040)	PatientSex	CS
(0x0010,0x1010)	PatientAge	AS
(0x0018,0x0010)	ContrastBolusAgent	LO
(0x0018,0x0050)	SliceThickness	DS
(0x0018,0x0080)	RepetitionTime	DS
(0x0018,0x0081)	EchoTime	DS
(0x0018,0x0082)	InversionTime	DS
(0x0018,0x0088)	SpacingBetweenSlices	DS
(0x0018,0x1009)	UniqueDeviceIdentifier	UT
(0x0018,0x100a)	UDISequence	SQ
(0x0018,0x1030)	ProtocolName	LO
(0x0018,0x1314)	FlipAngle	DS
(0x0020,0x000d)	StudyInstanceUID	UI
(0x0020,0x000e)	SeriesInstanceUID	UI
(0x0020,0x0010)	StudyID	SH
(0x0020,0x0011)	SeriesNumber	IS
(0x0020,0x0013)	InstanceNumber	IS
(0x0020,0x0032)	ImagePositionPatient	DS
(0x0020,0x0037)	ImageOrientationPatient	DS
(0x0020,0x0052)	FrameOfReferenceUID	UI
(0x0020,0x0105)	NumberOfTemporalPositions	IS
(0x0020,0x1002)	ImagesInAcquisition	IS
(0x0020,0x1041)	SliceLocation	DS
(0x0020,0x9128)	TemporalPositionIndex	UL
(0x0028,0x0002)	SamplesPerPixel	US
(0x0028,0x0004)	PhotometricInterpretation	CS
(0x0028,0x0010)	Rows	US

(0x0028,0x0011)	Columns	US
(0x0028,0x0030)	PixelSpacing	DS
(0x0028,0x0100)	BitsAllocated	US
(0x0028,0x0101)	BitsStored	US
(0x0028,0x0102)	HighBit	US
(0x0028,0x0103)	PixelRepresentation	US
(0x0028,0x0106)	SmallestImagePixelValue	US
(0x0028,0x0107)	LargestImagePixelValue	US
(0x0028,0x1050)	WindowCenter	DS
(0x0028,0x1051)	WindowWidth	DS
(0x0028,0x1052)	RescaleIntercept	DS
(0x0028,0x1053)	RescaleSlope	DS
(0x0028,0x1054)	RescaleType	LO
(0x0061,0x0010)	PrivateCreator	LO
(0x0061,0x1001)	CMN JSON Structure	OB
(0x7fe0,0x0010)	PixelData	OB
Series: parametric-cth		
(0x0008,0x0005)	SpecificCharacterSet	CS
(0x0008,0x0008)	ImageType	CS
(0x0008,0x0016)	SOPClassUID	UI
(0x0008,0x0018)	SOPInstanceUID	UI
(0x0008,0x0020)	StudyDate	DA
(0x0008,0x0021)	SeriesDate	DA
(0x0008,0x0022)	AcquisitionDate	DA
(0x0008,0x002a)	AcquisitionDateTime	DT
(0x0008,0x0030)	StudyTime	TM
(0x0008,0x0031)	SeriesTime	TM
(0x0008,0x0032)	AcquisitionTime	TM
(0x0008,0x0050)	AccessionNumber	SH
(0x0008,0x0060)	Modality	CS
(0x0008,0x0070)	Manufacturer	LO
(0x0008,0x0080)	InstitutionName	LO
(0x0008,0x0090)	ReferringPhysicianName	PN
(0x0008,0x0201)	TimezoneOffsetFromUTC	SH

(0x0008,0x1010)	StationName	SH
(0x0008,0x1030)	StudyDescription	LO
(0x0008,0x103e)	SeriesDescription	LO
(0x0008,0x1040)	InstitutionalDepartmentName	LO
(0x0008,0x1090)	ManufacturerModelName	LO
(0x0008,0x2111)	DerivationDescription	ST
(0x0010,0x0010)	PatientName	PN
(0x0010,0x0020)	PatientID	LO
(0x0010,0x0030)	PatientBirthDate	DA
(0x0010,0x0040)	PatientSex	CS
(0x0010,0x1010)	PatientAge	AS
(0x0018,0x0010)	ContrastBolusAgent	LO
(0x0018,0x0050)	SliceThickness	DS
(0x0018,0x0080)	RepetitionTime	DS
(0x0018,0x0081)	EchoTime	DS
(0x0018,0x0082)	InversionTime	DS
(0x0018,0x0088)	SpacingBetweenSlices	DS
(0x0018,0x1009)	UniqueDeviceIdentifier	UT
(0x0018,0x100a)	UDISequence	SQ
(0x0018,0x1030)	ProtocolName	LO
(0x0018,0x1314)	FlipAngle	DS
(0x0020,0x000d)	StudyInstanceUID	UI
(0x0020,0x000e)	SeriesInstanceUID	UI
(0x0020,0x0010)	StudyID	SH
(0x0020,0x0011)	SeriesNumber	IS
(0x0020,0x0013)	InstanceNumber	IS
(0x0020,0x0032)	ImagePositionPatient	DS
(0x0020,0x0037)	ImageOrientationPatient	DS
(0x0020,0x0052)	FrameOfReferenceUID	UI
(0x0020,0x0105)	NumberOfTemporalPositions	IS
(0x0020,0x1002)	ImagesInAcquisition	IS
(0x0020,0x1041)	SliceLocation	DS
(0x0020,0x9128)	TemporalPositionIndex	UL
(0x0028,0x0002)	SamplesPerPixel	US

(0x0028,0x0004)	PhotometricInterpretation	CS
(0x0028,0x0010)	Rows	US
(0x0028,0x0011)	Columns	US
(0x0028,0x0030)	PixelSpacing	DS
(0x0028,0x0100)	BitsAllocated	US
(0x0028,0x0101)	BitsStored	US
(0x0028,0x0102)	HighBit	US
(0x0028,0x0103)	PixelRepresentation	US
(0x0028,0x0106)	SmallestImagePixelValue	US
(0x0028,0x0107)	LargestImagePixelValue	US
(0x0028,0x1050)	WindowCenter	DS
(0x0028,0x1051)	WindowWidth	DS
(0x0028,0x1052)	RescaleIntercept	DS
(0x0028,0x1053)	RescaleSlope	DS
(0x0028,0x1054)	RescaleType	LO
(0x0061,0x0010)	PrivateCreator	LO
(0x0061,0x1001)	CMN JSON Structure	OB
(0x7fe0,0x0010)	PixelData	OB
Series: parametric-delay		
(0x0008,0x0005)	SpecificCharacterSet	CS
(0x0008,0x0008)	ImageType	CS
(0x0008,0x0016)	SOPClassUID	UI
(0x0008,0x0018)	SOPInstanceUID	UI
(0x0008,0x0020)	StudyDate	DA
(0x0008,0x0021)	SeriesDate	DA
(0x0008,0x0022)	AcquisitionDate	DA
(0x0008,0x002a)	AcquisitionDateTime	DT
(0x0008,0x0030)	StudyTime	TM
(0x0008,0x0031)	SeriesTime	TM
(0x0008,0x0032)	AcquisitionTime	TM
(0x0008,0x0050)	AccessionNumber	SH
(0x0008,0x0060)	Modality	CS
(0x0008,0x0070)	Manufacturer	LO
(0x0008,0x0080)	InstitutionName	LO

(0x0008,0x0090)	ReferringPhysicianName	PN
(0x0008,0x0201)	TimezoneOffsetFromUTC	SH
(0x0008,0x1010)	StationName	SH
(0x0008,0x1030)	StudyDescription	LO
(0x0008,0x103e)	SeriesDescription	LO
(0x0008,0x1040)	InstitutionalDepartmentName	LO
(0x0008,0x1090)	ManufacturerModelName	LO
(0x0008,0x2111)	DerivationDescription	ST
(0x0010,0x0010)	PatientName	PN
(0x0010,0x0020)	PatientID	LO
(0x0010,0x0030)	PatientBirthDate	DA
(0x0010,0x0040)	PatientSex	CS
(0x0010,0x1010)	PatientAge	AS
(0x0018,0x0010)	ContrastBolusAgent	LO
(0x0018,0x0050)	SliceThickness	DS
(0x0018,0x0080)	RepetitionTime	DS
(0x0018,0x0081)	EchoTime	DS
(0x0018,0x0082)	InversionTime	DS
(0x0018,0x0088)	SpacingBetweenSlices	DS
(0x0018,0x1009)	UniqueDeviceIdentifier	UT
(0x0018,0x100a)	UDISequence	SQ
(0x0018,0x1030)	ProtocolName	LO
(0x0018,0x1314)	FlipAngle	DS
(0x0020,0x000d)	StudyInstanceUID	UI
(0x0020,0x000e)	SeriesInstanceUID	UI
(0x0020,0x0010)	StudyID	SH
(0x0020,0x0011)	SeriesNumber	IS
(0x0020,0x0013)	InstanceNumber	IS
(0x0020,0x0032)	ImagePositionPatient	DS
(0x0020,0x0037)	ImageOrientationPatient	DS
(0x0020,0x0052)	FrameOfReferenceUID	UI
(0x0020,0x0105)	NumberOfTemporalPositions	IS
(0x0020,0x1002)	ImagesInAcquisition	IS
(0x0020,0x1041)	SliceLocation	DS

(0x0020,0x9128)	TemporalPositionIndex	UL
(0x0028,0x0002)	SamplesPerPixel	US
(0x0028,0x0004)	PhotometricInterpretation	CS
(0x0028,0x0010)	Rows	US
(0x0028,0x0011)	Columns	US
(0x0028,0x0030)	PixelSpacing	DS
(0x0028,0x0100)	BitsAllocated	US
(0x0028,0x0101)	BitsStored	US
(0x0028,0x0102)	HighBit	US
(0x0028,0x0103)	PixelRepresentation	US
(0x0028,0x0106)	SmallestImagePixelValue	US
(0x0028,0x0107)	LargestImagePixelValue	US
(0x0028,0x1050)	WindowCenter	DS
(0x0028,0x1051)	WindowWidth	DS
(0x0028,0x1052)	RescaleIntercept	DS
(0x0028,0x1053)	RescaleSlope	DS
(0x0028,0x1054)	RescaleType	LO
(0x0061,0x0010)	PrivateCreator	LO
(0x0061,0x1001)	CMN JSON Structure	OB
(0x7fe0,0x0010)	PixelData	OB
Series: parametric-kep		
(0x0008,0x0008)	ImageType	CS
(0x0008,0x0016)	SOPClassUID	UI
(0x0008,0x0018)	SOPInstanceUID	UI
(0x0008,0x0020)	StudyDate	DA
(0x0008,0x0021)	SeriesDate	DA
(0x0008,0x0022)	AcquisitionDate	DA
(0x0008,0x0030)	StudyTime	TM
(0x0008,0x0031)	SeriesTime	TM
(0x0008,0x0032)	AcquisitionTime	TM
(0x0008,0x0050)	AccessionNumber	SH
(0x0008,0x0060)	Modality	CS
(0x0008,0x0070)	Manufacturer	LO
(0x0008,0x0080)	InstitutionName	LO

(0x0008,0x0090)	ReferringPhysicianName	PN
(0x0008,0x0201)	TimezoneOffsetFromUTC	SH
(0x0008,0x1010)	StationName	SH
(0x0008,0x1030)	StudyDescription	LO
(0x0008,0x103e)	SeriesDescription	LO
(0x0008,0x1040)	InstitutionalDepartmentName	LO
(0x0008,0x1090)	ManufacturerModelName	LO
(0x0008,0x2111)	DerivationDescription	ST
(0x0010,0x0010)	PatientName	PN
(0x0010,0x0020)	PatientID	LO
(0x0010,0x0030)	PatientBirthDate	DA
(0x0010,0x0040)	PatientSex	CS
(0x0010,0x1010)	PatientAge	AS
(0x0018,0x0010)	ContrastBolusAgent	LO
(0x0018,0x0050)	SliceThickness	DS
(0x0018,0x0080)	RepetitionTime	DS
(0x0018,0x0081)	EchoTime	DS
(0x0018,0x0088)	SpacingBetweenSlices	DS
(0x0018,0x1009)	UniqueDeviceIdentifier	UT
(0x0018,0x100a)	UDISequence	SQ
(0x0018,0x1030)	ProtocolName	LO
(0x0018,0x1314)	FlipAngle	DS
(0x0020,0x000d)	StudyInstanceUID	UI
(0x0020,0x000e)	SeriesInstanceUID	UI
(0x0020,0x0010)	StudyID	SH
(0x0020,0x0011)	SeriesNumber	IS
(0x0020,0x0013)	InstanceNumber	IS
(0x0020,0x0032)	ImagePositionPatient	DS
(0x0020,0x0037)	ImageOrientationPatient	DS
(0x0020,0x0052)	FrameOfReferenceUID	UI
(0x0020,0x0105)	NumberOfTemporalPositions	IS
(0x0020,0x1002)	ImagesInAcquisition	IS
(0x0020,0x1041)	SliceLocation	DS
(0x0020,0x9128)	TemporalPositionIndex	UL

(0x0028,0x0002)	SamplesPerPixel	US
(0x0028,0x0004)	PhotometricInterpretation	CS
(0x0028,0x0010)	Rows	US
(0x0028,0x0011)	Columns	US
(0x0028,0x0030)	PixelSpacing	DS
(0x0028,0x0100)	BitsAllocated	US
(0x0028,0x0101)	BitsStored	US
(0x0028,0x0102)	HighBit	US
(0x0028,0x0103)	PixelRepresentation	US
(0x0028,0x0106)	SmallestImagePixelValue	US
(0x0028,0x0107)	LargestImagePixelValue	US
(0x0028,0x1050)	WindowCenter	DS
(0x0028,0x1051)	WindowWidth	DS
(0x0028,0x1052)	RescaleIntercept	DS
(0x0028,0x1053)	RescaleSlope	DS
(0x0028,0x1054)	RescaleType	LO
(0x0061,0x0010)	PrivateCreator	LO
(0x0061,0x1001)	CMN JSON Structure	OB
(0x7fe0,0x0010)	PixelData	OB
Series: parametric-ktrans		
(0x0008,0x0008)	ImageType	CS
(0x0008,0x0016)	SOPClassUID	UI
(0x0008,0x0018)	SOPInstanceUID	UI
(0x0008,0x0020)	StudyDate	DA
(0x0008,0x0021)	SeriesDate	DA
(0x0008,0x0022)	AcquisitionDate	DA
(0x0008,0x0030)	StudyTime	TM
(0x0008,0x0031)	SeriesTime	TM
(0x0008,0x0032)	AcquisitionTime	TM
(0x0008,0x0050)	AccessionNumber	SH
(0x0008,0x0060)	Modality	CS
(0x0008,0x0070)	Manufacturer	LO
(0x0008,0x0080)	InstitutionName	LO
(0x0008,0x0090)	ReferringPhysicianName	PN

(0x0008,0x0201)	TimezoneOffsetFromUTC	SH
(0x0008,0x1010)	StationName	SH
(0x0008,0x1030)	StudyDescription	LO
(0x0008,0x103e)	SeriesDescription	LO
(0x0008,0x1040)	InstitutionalDepartmentName	LO
(0x0008,0x1090)	ManufacturerModelName	LO
(0x0008,0x2111)	DerivationDescription	ST
(0x0010,0x0010)	PatientName	PN
(0x0010,0x0020)	PatientID	LO
(0x0010,0x0030)	PatientBirthDate	DA
(0x0010,0x0040)	PatientSex	CS
(0x0010,0x1010)	PatientAge	AS
(0x0018,0x0010)	ContrastBolusAgent	LO
(0x0018,0x0050)	SliceThickness	DS
(0x0018,0x0080)	RepetitionTime	DS
(0x0018,0x0081)	EchoTime	DS
(0x0018,0x0088)	SpacingBetweenSlices	DS
(0x0018,0x1009)	UniqueDeviceIdentifier	UT
(0x0018,0x100a)	UDISequence	SQ
(0x0018,0x1030)	ProtocolName	LO
(0x0018,0x1314)	FlipAngle	DS
(0x0020,0x000d)	StudyInstanceUID	UI
(0x0020,0x000e)	SeriesInstanceUID	UI
(0x0020,0x0010)	StudyID	SH
(0x0020,0x0011)	SeriesNumber	IS
(0x0020,0x0013)	InstanceNumber	IS
(0x0020,0x0032)	ImagePositionPatient	DS
(0x0020,0x0037)	ImageOrientationPatient	DS
(0x0020,0x0052)	FrameOfReferenceUID	UI
(0x0020,0x0105)	NumberOfTemporalPositions	IS
(0x0020,0x1002)	ImagesInAcquisition	IS
(0x0020,0x1041)	SliceLocation	DS
(0x0020,0x9128)	TemporalPositionIndex	UL
(0x0028,0x0002)	SamplesPerPixel	US

(0x0028,0x0004)	PhotometricInterpretation	CS
(0x0028,0x0010)	Rows	US
(0x0028,0x0011)	Columns	US
(0x0028,0x0030)	PixelSpacing	DS
(0x0028,0x0100)	BitsAllocated	US
(0x0028,0x0101)	BitsStored	US
(0x0028,0x0102)	HighBit	US
(0x0028,0x0103)	PixelRepresentation	US
(0x0028,0x0106)	SmallestImagePixelValue	US
(0x0028,0x0107)	LargestImagePixelValue	US
(0x0028,0x1050)	WindowCenter	DS
(0x0028,0x1051)	WindowWidth	DS
(0x0028,0x1052)	RescaleIntercept	DS
(0x0028,0x1053)	RescaleSlope	DS
(0x0028,0x1054)	RescaleType	LO
(0x0061,0x0010)	PrivateCreator	LO
(0x0061,0x1001)	CMN JSON Structure	OB
(0x7fe0,0x0010)	PixelData	OB
Series: parametric-leakage		
(0x0008,0x0005)	SpecificCharacterSet	CS
(0x0008,0x0008)	ImageType	CS
(0x0008,0x0016)	SOPClassUID	UI
(0x0008,0x0018)	SOPInstanceUID	UI
(0x0008,0x0020)	StudyDate	DA
(0x0008,0x0021)	SeriesDate	DA
(0x0008,0x0022)	AcquisitionDate	DA
(0x0008,0x0030)	StudyTime	TM
(0x0008,0x0031)	SeriesTime	TM
(0x0008,0x0032)	AcquisitionTime	TM
(0x0008,0x0050)	AccessionNumber	SH
(0x0008,0x0060)	Modality	CS
(0x0008,0x0064)	ConversionType	CS
(0x0008,0x0070)	Manufacturer	LO
(0x0008,0x0080)	InstitutionName	LO

(0x0008,0x0090)	ReferringPhysicianName	PN
(0x0008,0x0201)	TimezoneOffsetFromUTC	SH
(0x0008,0x1010)	StationName	SH
(0x0008,0x1030)	StudyDescription	LO
(0x0008,0x103e)	SeriesDescription	LO
(0x0008,0x1040)	InstitutionalDepartmentName	LO
(0x0008,0x1090)	ManufacturerModelName	LO
(0x0008,0x2111)	DerivationDescription	ST
(0x0010,0x0010)	PatientName	PN
(0x0010,0x0020)	PatientID	LO
(0x0010,0x0030)	PatientBirthDate	DA
(0x0010,0x0040)	PatientSex	CS
(0x0010,0x1010)	PatientAge	AS
(0x0018,0x0010)	ContrastBolusAgent	LO
(0x0018,0x0050)	SliceThickness	DS
(0x0018,0x0080)	RepetitionTime	DS
(0x0018,0x0081)	EchoTime	DS
(0x0018,0x0088)	SpacingBetweenSlices	DS
(0x0018,0x1009)	UniqueDeviceIdentifier	UT
(0x0018,0x100a)	UDISequence	SQ
(0x0018,0x1030)	ProtocolName	LO
(0x0018,0x1314)	FlipAngle	DS
(0x0018,0x2010)	NominalScannedPixelSpacing	DS
(0x0020,0x000d)	StudyInstanceUID	UI
(0x0020,0x000e)	SeriesInstanceUID	UI
(0x0020,0x0010)	StudyID	SH
(0x0020,0x0011)	SeriesNumber	IS
(0x0020,0x0013)	InstanceNumber	IS
(0x0020,0x0020)	PatientOrientation	CS
(0x0020,0x0032)	ImagePositionPatient	DS
(0x0020,0x0037)	ImageOrientationPatient	DS
(0x0020,0x0052)	FrameOfReferenceUID	UI
(0x0020,0x0105)	NumberOfTemporalPositions	IS
(0x0020,0x1002)	ImagesInAcquisition	IS

(0x0020,0x1041)	SliceLocation	DS
(0x0028,0x0002)	SamplesPerPixel	US
(0x0028,0x0004)	PhotometricInterpretation	CS
(0x0028,0x0006)	PlanarConfiguration	US
(0x0028,0x0010)	Rows	US
(0x0028,0x0011)	Columns	US
(0x0028,0x0030)	PixelSpacing	DS
(0x0028,0x0100)	BitsAllocated	US
(0x0028,0x0101)	BitsStored	US
(0x0028,0x0102)	HighBit	US
(0x0028,0x0103)	PixelRepresentation	US
(0x0028,0x0106)	SmallestImagePixelValue	US
(0x0028,0x0107)	LargestImagePixelValue	US
(0x0028,0x1050)	WindowCenter	DS
(0x0028,0x1051)	WindowWidth	DS
(0x0028,0x1052)	RescaleIntercept	DS
(0x0028,0x1053)	RescaleSlope	DS
(0x0028,0x1054)	RescaleType	LO
(0x0061,0x0010)	PrivateCreator	LO
(0x0061,0x1001)	CMN JSON Structure	OB
(0x7fe0,0x0010)	PixelData	OB
Series: parametric-mtt		
(0x0008,0x0005)	SpecificCharacterSet	CS
(0x0008,0x0008)	ImageType	CS
(0x0008,0x0016)	SOPClassUID	UI
(0x0008,0x0018)	SOPInstanceUID	UI
(0x0008,0x0020)	StudyDate	DA
(0x0008,0x0021)	SeriesDate	DA
(0x0008,0x0022)	AcquisitionDate	DA
(0x0008,0x002a)	AcquisitionDateTime	DT
(0x0008,0x0030)	StudyTime	TM
(0x0008,0x0031)	SeriesTime	TM
(0x0008,0x0032)	AcquisitionTime	TM
(0x0008,0x0050)	AccessionNumber	SH

(0x0008,0x0060)	Modality	CS
(0x0008,0x0070)	Manufacturer	LO
(0x0008,0x0080)	InstitutionName	LO
(0x0008,0x0090)	ReferringPhysicianName	PN
(0x0008,0x0201)	TimezoneOffsetFromUTC	SH
(0x0008,0x1010)	StationName	SH
(0x0008,0x1030)	StudyDescription	LO
(0x0008,0x103e)	SeriesDescription	LO
(0x0008,0x1040)	InstitutionalDepartmentName	LO
(0x0008,0x1090)	ManufacturerModelName	LO
(0x0008,0x2111)	DerivationDescription	ST
(0x0010,0x0010)	PatientName	PN
(0x0010,0x0020)	PatientID	LO
(0x0010,0x0030)	PatientBirthDate	DA
(0x0010,0x0040)	PatientSex	CS
(0x0010,0x1010)	PatientAge	AS
(0x0018,0x0010)	ContrastBolusAgent	LO
(0x0018,0x0050)	SliceThickness	DS
(0x0018,0x0080)	RepetitionTime	DS
(0x0018,0x0081)	EchoTime	DS
(0x0018,0x0082)	InversionTime	DS
(0x0018,0x0088)	SpacingBetweenSlices	DS
(0x0018,0x1009)	UniqueDeviceIdentifier	UT
(0x0018,0x100a)	UDISequence	SQ
(0x0018,0x1030)	ProtocolName	LO
(0x0018,0x1314)	FlipAngle	DS
(0x0020,0x000d)	StudyInstanceUID	UI
(0x0020,0x000e)	SeriesInstanceUID	UI
(0x0020,0x0010)	StudyID	SH
(0x0020,0x0011)	SeriesNumber	IS
(0x0020,0x0013)	InstanceNumber	IS
(0x0020,0x0032)	ImagePositionPatient	DS
(0x0020,0x0037)	ImageOrientationPatient	DS
(0x0020,0x0052)	FrameOfReferenceUID	UI

(0x0020,0x0105)	NumberOfTemporalPositions	IS
(0x0020,0x1002)	ImagesInAcquisition	IS
(0x0020,0x1041)	SliceLocation	DS
(0x0020,0x9128)	TemporalPositionIndex	UL
(0x0028,0x0002)	SamplesPerPixel	US
(0x0028,0x0004)	PhotometricInterpretation	CS
(0x0028,0x0010)	Rows	US
(0x0028,0x0011)	Columns	US
(0x0028,0x0030)	PixelSpacing	DS
(0x0028,0x0100)	BitsAllocated	US
(0x0028,0x0101)	BitsStored	US
(0x0028,0x0102)	HighBit	US
(0x0028,0x0103)	PixelRepresentation	US
(0x0028,0x0106)	SmallestImagePixelValue	US
(0x0028,0x0107)	LargestImagePixelValue	US
(0x0028,0x1050)	WindowCenter	DS
(0x0028,0x1051)	WindowWidth	DS
(0x0028,0x1052)	RescaleIntercept	DS
(0x0028,0x1053)	RescaleSlope	DS
(0x0028,0x1054)	RescaleType	LO
(0x0061,0x0010)	PrivateCreator	LO
(0x0061,0x1001)	CMN JSON Structure	OB
(0x7fe0,0x0010)	PixelData	OB
Series: parametric-oef		
(0x0008,0x0005)	SpecificCharacterSet	CS
(0x0008,0x0008)	ImageType	CS
(0x0008,0x0016)	SOPClassUID	UI
(0x0008,0x0018)	SOPInstanceUID	UI
(0x0008,0x0020)	StudyDate	DA
(0x0008,0x0021)	SeriesDate	DA
(0x0008,0x0022)	AcquisitionDate	DA
(0x0008,0x002a)	AcquisitionDateTime	DT
(0x0008,0x0030)	StudyTime	TM
(0x0008,0x0031)	SeriesTime	TM

(0x0008,0x0032)	AcquisitionTime	TM
(0x0008,0x0050)	AccessionNumber	SH
(0x0008,0x0060)	Modality	CS
(0x0008,0x0070)	Manufacturer	LO
(0x0008,0x0080)	InstitutionName	LO
(0x0008,0x0090)	ReferringPhysicianName	PN
(0x0008,0x0201)	TimezoneOffsetFromUTC	SH
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(0x0008,0x1030)	StudyDescription	LO
(0x0008,0x103e)	SeriesDescription	LO
(0x0008,0x1040)	InstitutionalDepartmentName	LO
(0x0008,0x1090)	ManufacturerModelName	LO
(0x0008,0x2111)	DerivationDescription	ST
(0x0010,0x0010)	PatientName	PN
(0x0010,0x0020)	PatientID	LO
(0x0010,0x0030)	PatientBirthDate	DA
(0x0010,0x0040)	PatientSex	CS
(0x0010,0x1010)	PatientAge	AS
(0x0018,0x0010)	ContrastBolusAgent	LO
(0x0018,0x0050)	SliceThickness	DS
(0x0018,0x0080)	RepetitionTime	DS
(0x0018,0x0081)	EchoTime	DS
(0x0018,0x0082)	InversionTime	DS
(0x0018,0x0088)	SpacingBetweenSlices	DS
(0x0018,0x1009)	UniqueDeviceIdentifier	UT
(0x0018,0x100a)	UDISequence	SQ
(0x0018,0x1030)	ProtocolName	LO
(0x0018,0x1314)	FlipAngle	DS
(0x0020,0x000d)	StudyInstanceUID	UI
(0x0020,0x000e)	SeriesInstanceUID	UI
(0x0020,0x0010)	StudyID	SH
(0x0020,0x0011)	SeriesNumber	IS
(0x0020,0x0013)	InstanceNumber	IS
(0x0020,0x0032)	ImagePositionPatient	DS

(0x0020,0x0037)	ImageOrientationPatient	DS
(0x0020,0x0052)	FrameOfReferenceUID	UI
(0x0020,0x0105)	NumberOfTemporalPositions	IS
(0x0020,0x1002)	ImagesInAcquisition	IS
(0x0020,0x1041)	SliceLocation	DS
(0x0020,0x9128)	TemporalPositionIndex	UL
(0x0028,0x0002)	SamplesPerPixel	US
(0x0028,0x0004)	PhotometricInterpretation	CS
(0x0028,0x0010)	Rows	US
(0x0028,0x0011)	Columns	US
(0x0028,0x0030)	PixelSpacing	DS
(0x0028,0x0100)	BitsAllocated	US
(0x0028,0x0101)	BitsStored	US
(0x0028,0x0102)	HighBit	US
(0x0028,0x0103)	PixelRepresentation	US
(0x0028,0x0106)	SmallestImagePixelValue	US
(0x0028,0x0107)	LargestImagePixelValue	US
(0x0028,0x1050)	WindowCenter	DS
(0x0028,0x1051)	WindowWidth	DS
(0x0028,0x1052)	RescaleIntercept	DS
(0x0028,0x1053)	RescaleSlope	DS
(0x0028,0x1054)	RescaleType	LO
(0x0061,0x0010)	PrivateCreator	LO
(0x0061,0x1001)	CMN JSON Structure	OB
(0x7fe0,0x0010)	PixelData	OB
Series: parametric-probability		
(0x0008,0x0005)	SpecificCharacterSet	CS
(0x0008,0x0008)	ImageType	CS
(0x0008,0x0016)	SOPClassUID	UI
(0x0008,0x0018)	SOPInstanceUID	UI
(0x0008,0x0020)	StudyDate	DA
(0x0008,0x0021)	SeriesDate	DA
(0x0008,0x0022)	AcquisitionDate	DA
(0x0008,0x002a)	AcquisitionDateTime	DT

(0x0008,0x0030)	StudyTime	TM
(0x0008,0x0031)	SeriesTime	TM
(0x0008,0x0032)	AcquisitionTime	TM
(0x0008,0x0050)	AccessionNumber	SH
(0x0008,0x0060)	Modality	CS
(0x0008,0x0070)	Manufacturer	LO
(0x0008,0x0080)	InstitutionName	LO
(0x0008,0x0090)	ReferringPhysicianName	PN
(0x0008,0x0201)	TimezoneOffsetFromUTC	SH
(0x0008,0x1010)	StationName	SH
(0x0008,0x1030)	StudyDescription	LO
(0x0008,0x103e)	SeriesDescription	LO
(0x0008,0x1040)	InstitutionalDepartmentName	LO
(0x0008,0x1090)	ManufacturerModelName	LO
(0x0008,0x2111)	DerivationDescription	ST
(0x0010,0x0010)	PatientName	PN
(0x0010,0x0020)	PatientID	LO
(0x0010,0x0030)	PatientBirthDate	DA
(0x0010,0x0040)	PatientSex	CS
(0x0010,0x1010)	PatientAge	AS
(0x0018,0x0010)	ContrastBolusAgent	LO
(0x0018,0x0050)	SliceThickness	DS
(0x0018,0x0080)	RepetitionTime	DS
(0x0018,0x0081)	EchoTime	DS
(0x0018,0x0082)	InversionTime	DS
(0x0018,0x0088)	SpacingBetweenSlices	DS
(0x0018,0x1009)	UniqueDeviceIdentifier	UT
(0x0018,0x100a)	UDISequence	SQ
(0x0018,0x1030)	ProtocolName	LO
(0x0018,0x1314)	FlipAngle	DS
(0x0020,0x000d)	StudyInstanceUID	UI
(0x0020,0x000e)	SeriesInstanceUID	UI
(0x0020,0x0010)	StudyID	SH
(0x0020,0x0011)	SeriesNumber	IS

(0x0020,0x0013)	InstanceNumber	IS
(0x0020,0x0032)	ImagePositionPatient	DS
(0x0020,0x0037)	ImageOrientationPatient	DS
(0x0020,0x0052)	FrameOfReferenceUID	UI
(0x0020,0x0105)	NumberOfTemporalPositions	IS
(0x0020,0x1002)	ImagesInAcquisition	IS
(0x0020,0x1041)	SliceLocation	DS
(0x0020,0x9128)	TemporalPositionIndex	UL
(0x0028,0x0002)	SamplesPerPixel	US
(0x0028,0x0004)	PhotometricInterpretation	CS
(0x0028,0x0010)	Rows	US
(0x0028,0x0011)	Columns	US
(0x0028,0x0030)	PixelSpacing	DS
(0x0028,0x0100)	BitsAllocated	US
(0x0028,0x0101)	BitsStored	US
(0x0028,0x0102)	HighBit	US
(0x0028,0x0103)	PixelRepresentation	US
(0x0028,0x0106)	SmallestImagePixelValue	US
(0x0028,0x0107)	LargestImagePixelValue	US
(0x0028,0x1050)	WindowCenter	DS
(0x0028,0x1051)	WindowWidth	DS
(0x0028,0x1052)	RescaleIntercept	DS
(0x0028,0x1053)	RescaleSlope	DS
(0x0028,0x1054)	RescaleType	LO
(0x0061,0x0010)	PrivateCreator	LO
(0x0061,0x1001)	CMN JSON Structure	OB
(0x7fe0,0x0010)	PixelData	OB
Series: parametric-ve		
(0x0008,0x0008)	ImageType	CS
(0x0008,0x0016)	SOPClassUID	UI
(0x0008,0x0018)	SOPInstanceUID	UI
(0x0008,0x0020)	StudyDate	DA
(0x0008,0x0021)	SeriesDate	DA
(0x0008,0x0022)	AcquisitionDate	DA

(0x0008,0x0030)	StudyTime	TM
(0x0008,0x0031)	SeriesTime	TM
(0x0008,0x0032)	AcquisitionTime	TM
(0x0008,0x0050)	AccessionNumber	SH
(0x0008,0x0060)	Modality	CS
(0x0008,0x0070)	Manufacturer	LO
(0x0008,0x0080)	InstitutionName	LO
(0x0008,0x0090)	ReferringPhysicianName	PN
(0x0008,0x0201)	TimezoneOffsetFromUTC	SH
(0x0008,0x1010)	StationName	SH
(0x0008,0x1030)	StudyDescription	LO
(0x0008,0x103e)	SeriesDescription	LO
(0x0008,0x1040)	InstitutionalDepartmentName	LO
(0x0008,0x1090)	ManufacturerModelName	LO
(0x0008,0x2111)	DerivationDescription	ST
(0x0010,0x0010)	PatientName	PN
(0x0010,0x0020)	PatientID	LO
(0x0010,0x0030)	PatientBirthDate	DA
(0x0010,0x0040)	PatientSex	CS
(0x0010,0x1010)	PatientAge	AS
(0x0018,0x0010)	ContrastBolusAgent	LO
(0x0018,0x0050)	SliceThickness	DS
(0x0018,0x0080)	RepetitionTime	DS
(0x0018,0x0081)	EchoTime	DS
(0x0018,0x0088)	SpacingBetweenSlices	DS
(0x0018,0x1009)	UniqueDeviceIdentifier	UT
(0x0018,0x100a)	UDISequence	SQ
(0x0018,0x1030)	ProtocolName	LO
(0x0018,0x1314)	FlipAngle	DS
(0x0020,0x000d)	StudyInstanceUID	UI
(0x0020,0x000e)	SeriesInstanceUID	UI
(0x0020,0x0010)	StudyID	SH
(0x0020,0x0011)	SeriesNumber	IS
(0x0020,0x0013)	InstanceNumber	IS

(0x0020,0x0032)	ImagePositionPatient	DS
(0x0020,0x0037)	ImageOrientationPatient	DS
(0x0020,0x0052)	FrameOfReferenceUID	UI
(0x0020,0x0105)	NumberOfTemporalPositions	IS
(0x0020,0x1002)	ImagesInAcquisition	IS
(0x0020,0x1041)	SliceLocation	DS
(0x0020,0x9128)	TemporalPositionIndex	UL
(0x0028,0x0002)	SamplesPerPixel	US
(0x0028,0x0004)	PhotometricInterpretation	CS
(0x0028,0x0010)	Rows	US
(0x0028,0x0011)	Columns	US
(0x0028,0x0030)	PixelSpacing	DS
(0x0028,0x0100)	BitsAllocated	US
(0x0028,0x0101)	BitsStored	US
(0x0028,0x0102)	HighBit	US
(0x0028,0x0103)	PixelRepresentation	US
(0x0028,0x0106)	SmallestImagePixelValue	US
(0x0028,0x0107)	LargestImagePixelValue	US
(0x0028,0x1050)	WindowCenter	DS
(0x0028,0x1051)	WindowWidth	DS
(0x0028,0x1052)	RescaleIntercept	DS
(0x0028,0x1053)	RescaleSlope	DS
(0x0028,0x1054)	RescaleType	LO
(0x0061,0x0010)	PrivateCreator	LO
(0x0061,0x1001)	CMN JSON Structure	OB
(0x7fe0,0x0010)	PixelData	OB
Series: parametric-vp		
(0x0008,0x0008)	ImageType	CS
(0x0008,0x0016)	SOPClassUID	UI
(0x0008,0x0018)	SOPInstanceUID	UI
(0x0008,0x0020)	StudyDate	DA
(0x0008,0x0021)	SeriesDate	DA
(0x0008,0x0022)	AcquisitionDate	DA
(0x0008,0x0030)	StudyTime	TM

(0x0008,0x0031)	SeriesTime	TM
(0x0008,0x0032)	AcquisitionTime	TM
(0x0008,0x0050)	AccessionNumber	SH
(0x0008,0x0060)	Modality	CS
(0x0008,0x0070)	Manufacturer	LO
(0x0008,0x0080)	InstitutionName	LO
(0x0008,0x0090)	ReferringPhysicianName	PN
(0x0008,0x0201)	TimezoneOffsetFromUTC	SH
(0x0008,0x1010)	StationName	SH
(0x0008,0x1030)	StudyDescription	LO
(0x0008,0x103e)	SeriesDescription	LO
(0x0008,0x1040)	InstitutionalDepartmentName	LO
(0x0008,0x1090)	ManufacturerModelName	LO
(0x0008,0x2111)	DerivationDescription	ST
(0x0010,0x0010)	PatientName	PN
(0x0010,0x0020)	PatientID	LO
(0x0010,0x0030)	PatientBirthDate	DA
(0x0010,0x0040)	PatientSex	CS
(0x0010,0x1010)	PatientAge	AS
(0x0018,0x0010)	ContrastBolusAgent	LO
(0x0018,0x0050)	SliceThickness	DS
(0x0018,0x0080)	RepetitionTime	DS
(0x0018,0x0081)	EchoTime	DS
(0x0018,0x0088)	SpacingBetweenSlices	DS
(0x0018,0x1009)	UniqueDeviceIdentifier	UT
(0x0018,0x100a)	UDISequence	SQ
(0x0018,0x1030)	ProtocolName	LO
(0x0018,0x1314)	FlipAngle	DS
(0x0020,0x000d)	StudyInstanceUID	UI
(0x0020,0x000e)	SeriesInstanceUID	UI
(0x0020,0x0010)	StudyID	SH
(0x0020,0x0011)	SeriesNumber	IS
(0x0020,0x0013)	InstanceNumber	IS
(0x0020,0x0032)	ImagePositionPatient	DS

(0x0020,0x0037)	ImageOrientationPatient	DS
(0x0020,0x0052)	FrameOfReferenceUID	UI
(0x0020,0x0105)	NumberOfTemporalPositions	IS
(0x0020,0x1002)	ImagesInAcquisition	IS
(0x0020,0x1041)	SliceLocation	DS
(0x0020,0x9128)	TemporalPositionIndex	UL
(0x0028,0x0002)	SamplesPerPixel	US
(0x0028,0x0004)	PhotometricInterpretation	CS
(0x0028,0x0010)	Rows	US
(0x0028,0x0011)	Columns	US
(0x0028,0x0030)	PixelSpacing	DS
(0x0028,0x0100)	BitsAllocated	US
(0x0028,0x0101)	BitsStored	US
(0x0028,0x0102)	HighBit	US
(0x0028,0x0103)	PixelRepresentation	US
(0x0028,0x0106)	SmallestImagePixelValue	US
(0x0028,0x0107)	LargestImagePixelValue	US
(0x0028,0x1050)	WindowCenter	DS
(0x0028,0x1051)	WindowWidth	DS
(0x0028,0x1052)	RescaleIntercept	DS
(0x0028,0x1053)	RescaleSlope	DS
(0x0028,0x1054)	RescaleType	LO
(0x0061,0x0010)	PrivateCreator	LO
(0x0061,0x1001)	CMN JSON Structure	OB
(0x7fe0,0x0010)	PixelData	OB
Series: perfusion-roi-synopsis		
(0x0008,0x0008)	ImageType	CS
(0x0008,0x0016)	SOPClassUID	UI
(0x0008,0x0018)	SOPInstanceUID	UI
(0x0008,0x0020)	StudyDate	DA
(0x0008,0x0021)	SeriesDate	DA
(0x0008,0x0022)	AcquisitionDate	DA
(0x0008,0x002a)	AcquisitionDateTime	DT
(0x0008,0x0030)	StudyTime	TM

(0x0008,0x0031)	SeriesTime	TM
(0x0008,0x0032)	AcquisitionTime	TM
(0x0008,0x0050)	AccessionNumber	SH
(0x0008,0x0060)	Modality	CS
(0x0008,0x0064)	ConversionType	CS
(0x0008,0x0070)	Manufacturer	LO
(0x0008,0x0080)	InstitutionName	LO
(0x0008,0x0090)	ReferringPhysicianName	PN
(0x0008,0x0201)	TimezoneOffsetFromUTC	SH
(0x0008,0x1010)	StationName	SH
(0x0008,0x1030)	StudyDescription	LO
(0x0008,0x103e)	SeriesDescription	LO
(0x0008,0x1040)	InstitutionalDepartmentName	LO
(0x0008,0x1090)	ManufacturerModelName	LO
(0x0008,0x2111)	DerivationDescription	ST
(0x0010,0x0010)	PatientName	PN
(0x0010,0x0020)	PatientID	LO
(0x0010,0x0030)	PatientBirthDate	DA
(0x0010,0x0040)	PatientSex	CS
(0x0010,0x1010)	PatientAge	AS
(0x0018,0x0050)	SliceThickness	DS
(0x0018,0x0080)	RepetitionTime	DS
(0x0018,0x0081)	EchoTime	DS
(0x0018,0x0088)	SpacingBetweenSlices	DS
(0x0018,0x1009)	UniqueDeviceIdentifier	UT
(0x0018,0x100a)	UDISequence	SQ
(0x0018,0x1030)	ProtocolName	LO
(0x0018,0x1314)	FlipAngle	DS
(0x0018,0x2010)	NominalScannedPixelSpacing	DS
(0x0020,0x000d)	StudyInstanceUID	UI
(0x0020,0x000e)	SeriesInstanceUID	UI
(0x0020,0x0010)	StudyID	SH
(0x0020,0x0011)	SeriesNumber	IS
(0x0020,0x0013)	InstanceNumber	IS

(0x0020,0x0020)	PatientOrientation	CS
(0x0020,0x0032)	ImagePositionPatient	DS
(0x0020,0x0037)	ImageOrientationPatient	DS
(0x0020,0x0052)	FrameOfReferenceUID	UI
(0x0020,0x0105)	NumberOfTemporalPositions	IS
(0x0020,0x1002)	ImagesInAcquisition	IS
(0x0020,0x1041)	SliceLocation	DS
(0x0028,0x0002)	SamplesPerPixel	US
(0x0028,0x0004)	PhotometricInterpretation	CS
(0x0028,0x0006)	PlanarConfiguration	US
(0x0028,0x0010)	Rows	US
(0x0028,0x0011)	Columns	US
(0x0028,0x0030)	PixelSpacing	DS
(0x0028,0x0100)	BitsAllocated	US
(0x0028,0x0101)	BitsStored	US
(0x0028,0x0102)	HighBit	US
(0x0028,0x0103)	PixelRepresentation	US
(0x0028,0x1050)	WindowCenter	DS
(0x0028,0x1051)	WindowWidth	DS
(0x0028,0x1054)	RescaleType	LO
(0x0061,0x0010)	PrivateCreator	LO
(0x0061,0x1001)	CMN JSON Structure	OB
(0x7fe0,0x0010)	PixelData	OB
Series: ssvd-cbf		
(0x0008,0x0008)	ImageType	CS
(0x0008,0x0016)	SOPClassUID	UI
(0x0008,0x0018)	SOPInstanceUID	UI
(0x0008,0x0020)	StudyDate	DA
(0x0008,0x0021)	SeriesDate	DA
(0x0008,0x0022)	AcquisitionDate	DA
(0x0008,0x002a)	AcquisitionDateTime	DT
(0x0008,0x0030)	StudyTime	TM
(0x0008,0x0031)	SeriesTime	TM
(0x0008,0x0032)	AcquisitionTime	TM

(0x0008,0x0050)	AccessionNumber	SH
(0x0008,0x0060)	Modality	CS
(0x0008,0x0070)	Manufacturer	LO
(0x0008,0x0080)	InstitutionName	LO
(0x0008,0x0090)	ReferringPhysicianName	PN
(0x0008,0x0201)	TimezoneOffsetFromUTC	SH
(0x0008,0x1010)	StationName	SH
(0x0008,0x1030)	StudyDescription	LO
(0x0008,0x103e)	SeriesDescription	LO
(0x0008,0x1040)	InstitutionalDepartmentName	LO
(0x0008,0x1090)	ManufacturerModelName	LO
(0x0008,0x2111)	DerivationDescription	ST
(0x0010,0x0010)	PatientName	PN
(0x0010,0x0020)	PatientID	LO
(0x0010,0x0030)	PatientBirthDate	DA
(0x0010,0x0040)	PatientSex	CS
(0x0010,0x1010)	PatientAge	AS
(0x0018,0x0010)	ContrastBolusAgent	LO
(0x0018,0x0050)	SliceThickness	DS
(0x0018,0x0080)	RepetitionTime	DS
(0x0018,0x0081)	EchoTime	DS
(0x0018,0x0088)	SpacingBetweenSlices	DS
(0x0018,0x1009)	UniqueDeviceIdentifier	UT
(0x0018,0x100a)	UDISequence	SQ
(0x0018,0x1030)	ProtocolName	LO
(0x0018,0x1314)	FlipAngle	DS
(0x0020,0x000d)	StudyInstanceUID	UI
(0x0020,0x000e)	SeriesInstanceUID	UI
(0x0020,0x0010)	StudyID	SH
(0x0020,0x0011)	SeriesNumber	IS
(0x0020,0x0013)	InstanceNumber	IS
(0x0020,0x0032)	ImagePositionPatient	DS
(0x0020,0x0037)	ImageOrientationPatient	DS
(0x0020,0x0052)	FrameOfReferenceUID	UI

(0x0020,0x0105)	NumberOfTemporalPositions	IS
(0x0020,0x1002)	ImagesInAcquisition	IS
(0x0020,0x1041)	SliceLocation	DS
(0x0028,0x0002)	SamplesPerPixel	US
(0x0028,0x0004)	PhotometricInterpretation	CS
(0x0028,0x0010)	Rows	US
(0x0028,0x0011)	Columns	US
(0x0028,0x0030)	PixelSpacing	DS
(0x0028,0x0100)	BitsAllocated	US
(0x0028,0x0101)	BitsStored	US
(0x0028,0x0102)	HighBit	US
(0x0028,0x0103)	PixelRepresentation	US
(0x0028,0x0106)	SmallestImagePixelValue	US
(0x0028,0x0107)	LargestImagePixelValue	US
(0x0028,0x1050)	WindowCenter	DS
(0x0028,0x1051)	WindowWidth	DS
(0x0028,0x1052)	RescaleIntercept	DS
(0x0028,0x1053)	RescaleSlope	DS
(0x0028,0x1054)	RescaleType	LO
(0x0061,0x0010)	PrivateCreator	LO
(0x0061,0x1001)	CMN JSON Structure	OB
(0x7fe0,0x0010)	PixelData	OB
Series: ssvd-cbv		
(0x0008,0x0008)	ImageType	CS
(0x0008,0x0016)	SOPClassUID	UI
(0x0008,0x0018)	SOPInstanceUID	UI
(0x0008,0x0020)	StudyDate	DA
(0x0008,0x0021)	SeriesDate	DA
(0x0008,0x0022)	AcquisitionDate	DA
(0x0008,0x002a)	AcquisitionDateTime	DT
(0x0008,0x0030)	StudyTime	TM
(0x0008,0x0031)	SeriesTime	TM
(0x0008,0x0032)	AcquisitionTime	TM
(0x0008,0x0050)	AccessionNumber	SH

(0x0008,0x0060)	Modality	CS
(0x0008,0x0070)	Manufacturer	LO
(0x0008,0x0080)	InstitutionName	LO
(0x0008,0x0090)	ReferringPhysicianName	PN
(0x0008,0x0201)	TimezoneOffsetFromUTC	SH
(0x0008,0x1010)	StationName	SH
(0x0008,0x1030)	StudyDescription	LO
(0x0008,0x103e)	SeriesDescription	LO
(0x0008,0x1040)	InstitutionalDepartmentName	LO
(0x0008,0x1090)	ManufacturerModelName	LO
(0x0008,0x2111)	DerivationDescription	ST
(0x0010,0x0010)	PatientName	PN
(0x0010,0x0020)	PatientID	LO
(0x0010,0x0030)	PatientBirthDate	DA
(0x0010,0x0040)	PatientSex	CS
(0x0010,0x1010)	PatientAge	AS
(0x0018,0x0050)	SliceThickness	DS
(0x0018,0x0080)	RepetitionTime	DS
(0x0018,0x0081)	EchoTime	DS
(0x0018,0x0088)	SpacingBetweenSlices	DS
(0x0018,0x1009)	UniqueDeviceIdentifier	UT
(0x0018,0x100a)	UDISequence	SQ
(0x0018,0x1030)	ProtocolName	LO
(0x0018,0x1314)	FlipAngle	DS
(0x0020,0x000d)	StudyInstanceUID	UI
(0x0020,0x000e)	SeriesInstanceUID	UI
(0x0020,0x0010)	StudyID	SH
(0x0020,0x0011)	SeriesNumber	IS
(0x0020,0x0013)	InstanceNumber	IS
(0x0020,0x0032)	ImagePositionPatient	DS
(0x0020,0x0037)	ImageOrientationPatient	DS
(0x0020,0x0052)	FrameOfReferenceUID	UI
(0x0020,0x0105)	NumberOfTemporalPositions	IS
(0x0020,0x1002)	ImagesInAcquisition	IS

(0x0020,0x1041)	SliceLocation	DS
(0x0028,0x0002)	SamplesPerPixel	US
(0x0028,0x0004)	PhotometricInterpretation	CS
(0x0028,0x0010)	Rows	US
(0x0028,0x0011)	Columns	US
(0x0028,0x0030)	PixelSpacing	DS
(0x0028,0x0100)	BitsAllocated	US
(0x0028,0x0101)	BitsStored	US
(0x0028,0x0102)	HighBit	US
(0x0028,0x0103)	PixelRepresentation	US
(0x0028,0x0106)	SmallestImagePixelValue	US
(0x0028,0x0107)	LargestImagePixelValue	US
(0x0028,0x1050)	WindowCenter	DS
(0x0028,0x1051)	WindowWidth	DS
(0x0028,0x1052)	RescaleIntercept	DS
(0x0028,0x1053)	RescaleSlope	DS
(0x0028,0x1054)	RescaleType	LO
(0x0061,0x0010)	PrivateCreator	LO
(0x0061,0x1001)	CMN JSON Structure	OB
(0x7fe0,0x0010)	PixelData	OB
Series: ssvd-mtt		
(0x0008,0x0008)	ImageType	CS
(0x0008,0x0016)	SOPClassUID	UI
(0x0008,0x0018)	SOPInstanceUID	UI
(0x0008,0x0020)	StudyDate	DA
(0x0008,0x0021)	SeriesDate	DA
(0x0008,0x0022)	AcquisitionDate	DA
(0x0008,0x002a)	AcquisitionDateTime	DT
(0x0008,0x0030)	StudyTime	TM
(0x0008,0x0031)	SeriesTime	TM
(0x0008,0x0032)	AcquisitionTime	TM
(0x0008,0x0050)	AccessionNumber	SH
(0x0008,0x0060)	Modality	CS
(0x0008,0x0070)	Manufacturer	LO

(0x0008,0x0080)	InstitutionName	LO
(0x0008,0x0090)	ReferringPhysicianName	PN
(0x0008,0x0201)	TimezoneOffsetFromUTC	SH
(0x0008,0x1010)	StationName	SH
(0x0008,0x1030)	StudyDescription	LO
(0x0008,0x103e)	SeriesDescription	LO
(0x0008,0x1040)	InstitutionalDepartmentName	LO
(0x0008,0x1090)	ManufacturerModelName	LO
(0x0008,0x2111)	DerivationDescription	ST
(0x0010,0x0010)	PatientName	PN
(0x0010,0x0020)	PatientID	LO
(0x0010,0x0030)	PatientBirthDate	DA
(0x0010,0x0040)	PatientSex	CS
(0x0010,0x1010)	PatientAge	AS
(0x0018,0x0050)	SliceThickness	DS
(0x0018,0x0080)	RepetitionTime	DS
(0x0018,0x0081)	EchoTime	DS
(0x0018,0x0088)	SpacingBetweenSlices	DS
(0x0018,0x1009)	UniqueDeviceIdentifier	UT
(0x0018,0x100a)	UDISequence	SQ
(0x0018,0x1030)	ProtocolName	LO
(0x0018,0x1314)	FlipAngle	DS
(0x0020,0x000d)	StudyInstanceUID	UI
(0x0020,0x000e)	SeriesInstanceUID	UI
(0x0020,0x0010)	StudyID	SH
(0x0020,0x0011)	SeriesNumber	IS
(0x0020,0x0013)	InstanceNumber	IS
(0x0020,0x0032)	ImagePositionPatient	DS
(0x0020,0x0037)	ImageOrientationPatient	DS
(0x0020,0x0052)	FrameOfReferenceUID	UI
(0x0020,0x0105)	NumberOfTemporalPositions	IS
(0x0020,0x1002)	ImagesInAcquisition	IS
(0x0020,0x1041)	SliceLocation	DS
(0x0028,0x0002)	SamplesPerPixel	US

(0x0028,0x0004)	PhotometricInterpretation	CS
(0x0028,0x0010)	Rows	US
(0x0028,0x0011)	Columns	US
(0x0028,0x0030)	PixelSpacing	DS
(0x0028,0x0100)	BitsAllocated	US
(0x0028,0x0101)	BitsStored	US
(0x0028,0x0102)	HighBit	US
(0x0028,0x0103)	PixelRepresentation	US
(0x0028,0x0106)	SmallestImagePixelValue	US
(0x0028,0x0107)	LargestImagePixelValue	US
(0x0028,0x1050)	WindowCenter	DS
(0x0028,0x1051)	WindowWidth	DS
(0x0028,0x1052)	RescaleIntercept	DS
(0x0028,0x1053)	RescaleSlope	DS
(0x0028,0x1054)	RescaleType	LO
(0x0061,0x0010)	PrivateCreator	LO
(0x0061,0x1001)	CMN JSON Structure	OB
(0x7fe0,0x0010)	PixelData	OB
Series: ssvd-tmax		
(0x0008,0x0008)	ImageType	CS
(0x0008,0x0016)	SOPClassUID	UI
(0x0008,0x0018)	SOPInstanceUID	UI
(0x0008,0x0020)	StudyDate	DA
(0x0008,0x0021)	SeriesDate	DA
(0x0008,0x0022)	AcquisitionDate	DA
(0x0008,0x002a)	AcquisitionDateTime	DT
(0x0008,0x0030)	StudyTime	TM
(0x0008,0x0031)	SeriesTime	TM
(0x0008,0x0032)	AcquisitionTime	TM
(0x0008,0x0050)	AccessionNumber	SH
(0x0008,0x0060)	Modality	CS
(0x0008,0x0070)	Manufacturer	LO
(0x0008,0x0080)	InstitutionName	LO
(0x0008,0x0090)	ReferringPhysicianName	PN

(0x0008,0x0201)	TimezoneOffsetFromUTC	SH
(0x0008,0x1010)	StationName	SH
(0x0008,0x1030)	StudyDescription	LO
(0x0008,0x103e)	SeriesDescription	LO
(0x0008,0x1040)	InstitutionalDepartmentName	LO
(0x0008,0x1090)	ManufacturerModelName	LO
(0x0008,0x2111)	DerivationDescription	ST
(0x0010,0x0010)	PatientName	PN
(0x0010,0x0020)	PatientID	LO
(0x0010,0x0030)	PatientBirthDate	DA
(0x0010,0x0040)	PatientSex	CS
(0x0010,0x1010)	PatientAge	AS
(0x0018,0x0050)	SliceThickness	DS
(0x0018,0x0080)	RepetitionTime	DS
(0x0018,0x0081)	EchoTime	DS
(0x0018,0x0088)	SpacingBetweenSlices	DS
(0x0018,0x1009)	UniqueDeviceIdentifier	UT
(0x0018,0x100a)	UDISequence	SQ
(0x0018,0x1030)	ProtocolName	LO
(0x0018,0x1314)	FlipAngle	DS
(0x0020,0x000d)	StudyInstanceUID	UI
(0x0020,0x000e)	SeriesInstanceUID	UI
(0x0020,0x0010)	StudyID	SH
(0x0020,0x0011)	SeriesNumber	IS
(0x0020,0x0013)	InstanceNumber	IS
(0x0020,0x0032)	ImagePositionPatient	DS
(0x0020,0x0037)	ImageOrientationPatient	DS
(0x0020,0x0052)	FrameOfReferenceUID	UI
(0x0020,0x0105)	NumberOfTemporalPositions	IS
(0x0020,0x1002)	ImagesInAcquisition	IS
(0x0020,0x1041)	SliceLocation	DS
(0x0028,0x0002)	SamplesPerPixel	US
(0x0028,0x0004)	PhotometricInterpretation	CS
(0x0028,0x0010)	Rows	US

(0x0028,0x0011)	Columns	US
(0x0028,0x0030)	PixelSpacing	DS
(0x0028,0x0100)	BitsAllocated	US
(0x0028,0x0101)	BitsStored	US
(0x0028,0x0102)	HighBit	US
(0x0028,0x0103)	PixelRepresentation	US
(0x0028,0x0106)	SmallestImagePixelValue	US
(0x0028,0x0107)	LargestImagePixelValue	US
(0x0028,0x1050)	WindowCenter	DS
(0x0028,0x1051)	WindowWidth	DS
(0x0028,0x1052)	RescaleIntercept	DS
(0x0028,0x1053)	RescaleSlope	DS
(0x0028,0x1054)	RescaleType	LO
(0x0061,0x0010)	PrivateCreator	LO
(0x0061,0x1001)	CMN JSON Structure	OB
(0x7fe0,0x0010)	PixelData	OB
Series: tmax-threshold		
(0x0008,0x0008)	ImageType	CS
(0x0008,0x0016)	SOPClassUID	UI
(0x0008,0x0018)	SOPInstanceUID	UI
(0x0008,0x0020)	StudyDate	DA
(0x0008,0x0021)	SeriesDate	DA
(0x0008,0x0022)	AcquisitionDate	DA
(0x0008,0x002a)	AcquisitionDateTime	DT
(0x0008,0x0030)	StudyTime	TM
(0x0008,0x0031)	SeriesTime	TM
(0x0008,0x0032)	AcquisitionTime	TM
(0x0008,0x0050)	AccessionNumber	SH
(0x0008,0x0060)	Modality	CS
(0x0008,0x0064)	ConversionType	CS
(0x0008,0x0070)	Manufacturer	LO
(0x0008,0x0080)	InstitutionName	LO
(0x0008,0x0090)	ReferringPhysicianName	PN
(0x0008,0x0201)	TimezoneOffsetFromUTC	SH

(0x0008,0x1010)	StationName	SH
(0x0008,0x1030)	StudyDescription	LO
(0x0008,0x103e)	SeriesDescription	LO
(0x0008,0x1040)	InstitutionalDepartmentName	LO
(0x0008,0x1090)	ManufacturerModelName	LO
(0x0008,0x2111)	DerivationDescription	ST
(0x0010,0x0010)	PatientName	PN
(0x0010,0x0020)	PatientID	LO
(0x0010,0x0030)	PatientBirthDate	DA
(0x0010,0x0040)	PatientSex	CS
(0x0010,0x1010)	PatientAge	AS
(0x0018,0x0050)	SliceThickness	DS
(0x0018,0x0080)	RepetitionTime	DS
(0x0018,0x0081)	EchoTime	DS
(0x0018,0x0088)	SpacingBetweenSlices	DS
(0x0018,0x1009)	UniqueDeviceIdentifier	UT
(0x0018,0x100a)	UDISequence	SQ
(0x0018,0x1030)	ProtocolName	LO
(0x0018,0x1314)	FlipAngle	DS
(0x0018,0x2010)	NominalScannedPixelSpacing	DS
(0x0020,0x000d)	StudyInstanceUID	UI
(0x0020,0x000e)	SeriesInstanceUID	UI
(0x0020,0x0010)	StudyID	SH
(0x0020,0x0011)	SeriesNumber	IS
(0x0020,0x0013)	InstanceNumber	IS
(0x0020,0x0020)	PatientOrientation	CS
(0x0020,0x0032)	ImagePositionPatient	DS
(0x0020,0x0037)	ImageOrientationPatient	DS
(0x0020,0x0052)	FrameOfReferenceUID	UI
(0x0020,0x0105)	NumberOfTemporalPositions	IS
(0x0020,0x1002)	ImagesInAcquisition	IS
(0x0020,0x1041)	SliceLocation	DS
(0x0028,0x0002)	SamplesPerPixel	US
(0x0028,0x0004)	PhotometricInterpretation	CS

(0x0028,0x0006)	PlanarConfiguration	US
(0x0028,0x0010)	Rows	US
(0x0028,0x0011)	Columns	US
(0x0028,0x0030)	PixelSpacing	DS
(0x0028,0x0100)	BitsAllocated	US
(0x0028,0x0101)	BitsStored	US
(0x0028,0x0102)	HighBit	US
(0x0028,0x0103)	PixelRepresentation	US
(0x0028,0x1050)	WindowCenter	DS
(0x0028,0x1051)	WindowWidth	DS
(0x0028,0x1054)	RescaleType	LO
(0x0061,0x0010)	PrivateCreator	LO
(0x0061,0x1001)	CMN JSON Structure	OB
(0x7fe0,0x0010)	PixelData	OB
Series: ttd		
(0x0008,0x0005)	SpecificCharacterSet	CS
(0x0008,0x0008)	ImageType	CS
(0x0008,0x0016)	SOPClassUID	UI
(0x0008,0x0018)	SOPInstanceUID	UI
(0x0008,0x0020)	StudyDate	DA
(0x0008,0x0021)	SeriesDate	DA
(0x0008,0x0022)	AcquisitionDate	DA
(0x0008,0x002a)	AcquisitionDateTime	DT
(0x0008,0x0030)	StudyTime	TM
(0x0008,0x0031)	SeriesTime	TM
(0x0008,0x0032)	AcquisitionTime	TM
(0x0008,0x0050)	AccessionNumber	SH
(0x0008,0x0060)	Modality	CS
(0x0008,0x0070)	Manufacturer	LO
(0x0008,0x0080)	InstitutionName	LO
(0x0008,0x0090)	ReferringPhysicianName	PN
(0x0008,0x0201)	TimezoneOffsetFromUTC	SH
(0x0008,0x1010)	StationName	SH
(0x0008,0x1030)	StudyDescription	LO

(0x0008,0x103e)	SeriesDescription	LO
(0x0008,0x1040)	InstitutionalDepartmentName	LO
(0x0008,0x1090)	ManufacturerModelName	LO
(0x0008,0x2111)	DerivationDescription	ST
(0x0010,0x0010)	PatientName	PN
(0x0010,0x0020)	PatientID	LO
(0x0010,0x0030)	PatientBirthDate	DA
(0x0010,0x0040)	PatientSex	CS
(0x0010,0x1010)	PatientAge	AS
(0x0018,0x0010)	ContrastBolusAgent	LO
(0x0018,0x0050)	SliceThickness	DS
(0x0018,0x0080)	RepetitionTime	DS
(0x0018,0x0081)	EchoTime	DS
(0x0018,0x0082)	InversionTime	DS
(0x0018,0x0088)	SpacingBetweenSlices	DS
(0x0018,0x1009)	UniqueDeviceIdentifier	UT
(0x0018,0x100a)	UDISequence	SQ
(0x0018,0x1030)	ProtocolName	LO
(0x0018,0x1314)	FlipAngle	DS
(0x0020,0x000d)	StudyInstanceUID	UI
(0x0020,0x000e)	SeriesInstanceUID	UI
(0x0020,0x0010)	StudyID	SH
(0x0020,0x0011)	SeriesNumber	IS
(0x0020,0x0013)	InstanceNumber	IS
(0x0020,0x0032)	ImagePositionPatient	DS
(0x0020,0x0037)	ImageOrientationPatient	DS
(0x0020,0x0052)	FrameOfReferenceUID	UI
(0x0020,0x0105)	NumberOfTemporalPositions	IS
(0x0020,0x1002)	ImagesInAcquisition	IS
(0x0020,0x1041)	SliceLocation	DS
(0x0020,0x9128)	TemporalPositionIndex	UL
(0x0028,0x0002)	SamplesPerPixel	US
(0x0028,0x0004)	PhotometricInterpretation	CS
(0x0028,0x0010)	Rows	US

(0x0028,0x0011)	Columns	US
(0x0028,0x0030)	PixelSpacing	DS
(0x0028,0x0100)	BitsAllocated	US
(0x0028,0x0101)	BitsStored	US
(0x0028,0x0102)	HighBit	US
(0x0028,0x0103)	PixelRepresentation	US
(0x0028,0x0106)	SmallestImagePixelValue	US
(0x0028,0x0107)	LargestImagePixelValue	US
(0x0028,0x1050)	WindowCenter	DS
(0x0028,0x1051)	WindowWidth	DS
(0x0028,0x1052)	RescaleIntercept	DS
(0x0028,0x1053)	RescaleSlope	DS
(0x0028,0x1054)	RescaleType	LO
(0x0061,0x0010)	PrivateCreator	LO
(0x0061,0x1001)	CMN JSON Structure	OB
(0x7fe0,0x0010)	PixelData	OB
Series: ttp		
(0x0008,0x0005)	SpecificCharacterSet	CS
(0x0008,0x0008)	ImageType	CS
(0x0008,0x0016)	SOPClassUID	UI
(0x0008,0x0018)	SOPInstanceUID	UI
(0x0008,0x0020)	StudyDate	DA
(0x0008,0x0021)	SeriesDate	DA
(0x0008,0x0022)	AcquisitionDate	DA
(0x0008,0x002a)	AcquisitionDateTime	DT
(0x0008,0x0030)	StudyTime	TM
(0x0008,0x0031)	SeriesTime	TM
(0x0008,0x0032)	AcquisitionTime	TM
(0x0008,0x0050)	AccessionNumber	SH
(0x0008,0x0060)	Modality	CS
(0x0008,0x0070)	Manufacturer	LO
(0x0008,0x0080)	InstitutionName	LO
(0x0008,0x0090)	ReferringPhysicianName	PN
(0x0008,0x0201)	TimezoneOffsetFromUTC	SH

(0x0008,0x1010)	StationName	SH
(0x0008,0x1030)	StudyDescription	LO
(0x0008,0x103e)	SeriesDescription	LO
(0x0008,0x1040)	InstitutionalDepartmentName	LO
(0x0008,0x1090)	ManufacturerModelName	LO
(0x0008,0x2111)	DerivationDescription	ST
(0x0010,0x0010)	PatientName	PN
(0x0010,0x0020)	PatientID	LO
(0x0010,0x0030)	PatientBirthDate	DA
(0x0010,0x0040)	PatientSex	CS
(0x0010,0x1010)	PatientAge	AS
(0x0018,0x0010)	ContrastBolusAgent	LO
(0x0018,0x0050)	SliceThickness	DS
(0x0018,0x0080)	RepetitionTime	DS
(0x0018,0x0081)	EchoTime	DS
(0x0018,0x0082)	InversionTime	DS
(0x0018,0x0088)	SpacingBetweenSlices	DS
(0x0018,0x1009)	UniqueDeviceIdentifier	UT
(0x0018,0x100a)	UDISequence	SQ
(0x0018,0x1030)	ProtocolName	LO
(0x0018,0x1314)	FlipAngle	DS
(0x0020,0x000d)	StudyInstanceUID	UI
(0x0020,0x000e)	SeriesInstanceUID	UI
(0x0020,0x0010)	StudyID	SH
(0x0020,0x0011)	SeriesNumber	IS
(0x0020,0x0013)	InstanceNumber	IS
(0x0020,0x0032)	ImagePositionPatient	DS
(0x0020,0x0037)	ImageOrientationPatient	DS
(0x0020,0x0052)	FrameOfReferenceUID	UI
(0x0020,0x0105)	NumberOfTemporalPositions	IS
(0x0020,0x1002)	ImagesInAcquisition	IS
(0x0020,0x1041)	SliceLocation	DS
(0x0020,0x9128)	TemporalPositionIndex	UL
(0x0028,0x0002)	SamplesPerPixel	US

(0x0028,0x0004)	PhotometricInterpretation	CS
(0x0028,0x0010)	Rows	US
(0x0028,0x0011)	Columns	US
(0x0028,0x0030)	PixelSpacing	DS
(0x0028,0x0100)	BitsAllocated	US
(0x0028,0x0101)	BitsStored	US
(0x0028,0x0102)	HighBit	US
(0x0028,0x0103)	PixelRepresentation	US
(0x0028,0x0106)	SmallestImagePixelValue	US
(0x0028,0x0107)	LargestImagePixelValue	US
(0x0028,0x1050)	WindowCenter	DS
(0x0028,0x1051)	WindowWidth	DS
(0x0028,0x1052)	RescaleIntercept	DS
(0x0028,0x1053)	RescaleSlope	DS
(0x0028,0x1054)	RescaleType	LO
(0x0061,0x0010)	PrivateCreator	LO
(0x0061,0x1001)	CMN JSON Structure	OB
(0x7fe0,0x0010)	PixelData	OB
Series: unknown		
(0x0008,0x0005)	SpecificCharacterSet	CS
(0x0008,0x0008)	ImageType	CS
(0x0008,0x0012)	InstanceCreationDate	DA
(0x0008,0x0013)	InstanceCreationTime	TM
(0x0008,0x0014)	InstanceCreatorUID	UI
(0x0008,0x0016)	SOPClassUID	UI
(0x0008,0x0018)	SOPInstanceUID	UI
(0x0008,0x0020)	StudyDate	DA
(0x0008,0x0021)	SeriesDate	DA
(0x0008,0x0022)	AcquisitionDate	DA
(0x0008,0x002a)	AcquisitionDateTime	DT
(0x0008,0x0030)	StudyTime	TM
(0x0008,0x0032)	AcquisitionTime	TM
(0x0008,0x0033)	ContentTime	TM
(0x0008,0x0050)	AccessionNumber	SH

(0x0008,0x0060)	Modality	CS
(0x0008,0x0070)	Manufacturer	LO
(0x0008,0x0080)	InstitutionName	LO
(0x0008,0x0090)	ReferringPhysicianName	PN
(0x0008,0x1010)	StationName	SH
(0x0008,0x1030)	StudyDescription	LO
(0x0008,0x103e)	SeriesDescription	LO
(0x0008,0x1040)	InstitutionalDepartmentName	LO
(0x0008,0x1090)	ManufacturerModelName	LO
(0x0010,0x0010)	PatientName	PN
(0x0010,0x0020)	PatientID	LO
(0x0010,0x0030)	PatientBirthDate	DA
(0x0010,0x0040)	PatientSex	CS
(0x0010,0x1030)	PatientWeight	DS
(0x0010,0x21c0)	PregnancyStatus	US
(0x0018,0x0050)	SliceThickness	DS
(0x0018,0x0080)	RepetitionTime	DS
(0x0018,0x0081)	EchoTime	DS
(0x0018,0x0082)	InversionTime	DS
(0x0018,0x0087)	MagneticFieldStrength	DS
(0x0018,0x0088)	SpacingBetweenSlices	DS
(0x0018,0x1000)	DeviceSerialNumber	LO
(0x0018,0x1009)	UniqueDeviceIdentifier	UT
(0x0018,0x100a)	UDISequence	SQ
(0x0018,0x1030)	ProtocolName	LO
(0x0018,0x1314)	FlipAngle	DS
(0x0018,0x5100)	PatientPosition	CS
(0x0018,0x9009)	InversionRecovery	CS
(0x0018,0x9073)	AcquisitionDuration	FD
(0x0018,0x9087)	DiffusionBValue	FD
(0x0018,0x9089)	DiffusionGradientOrientation	FD
(0x0020,0x000d)	StudyInstanceUID	UI
(0x0020,0x000e)	SeriesInstanceUID	UI
(0x0020,0x0010)	StudyID	SH

(0x0020,0x0011)	SeriesNumber	IS
(0x0020,0x0012)	AcquisitionNumber	IS
(0x0020,0x0013)	InstanceNumber	IS
(0x0020,0x0032)	ImagePositionPatient	DS
(0x0020,0x0037)	ImageOrientationPatient	DS
(0x0020,0x0052)	FrameOfReferenceUID	UI
(0x0020,0x0100)	TemporalPositionIdentifier	IS
(0x0020,0x0105)	NumberOfTemporalPositions	IS
(0x0020,0x9128)	TemporalPositionIndex	UL
(0x0028,0x0002)	SamplesPerPixel	US
(0x0028,0x0004)	PhotometricInterpretation	CS
(0x0028,0x0010)	Rows	US
(0x0028,0x0011)	Columns	US
(0x0028,0x0030)	PixelSpacing	DS
(0x0028,0x0100)	BitsAllocated	US
(0x0028,0x0101)	BitsStored	US
(0x0028,0x0102)	HighBit	US
(0x0028,0x0103)	PixelRepresentation	US
(0x0028,0x1050)	WindowCenter	DS
(0x0028,0x1051)	WindowWidth	DS
(0x0028,0x1052)	RescaleIntercept	DS
(0x0028,0x1053)	RescaleSlope	DS
(0x0028,0x1054)	RescaleType	LO
(0x0061,0x0010)	PrivateCreator	LO
(0x7fe0,0x0010)	PixelData	OB
Series: volume-displacement-chart		
(0x0008,0x0005)	SpecificCharacterSet	CS
(0x0008,0x0008)	ImageType	CS
(0x0008,0x0016)	SOPClassUID	UI
(0x0008,0x0018)	SOPInstanceUID	UI
(0x0008,0x0020)	StudyDate	DA
(0x0008,0x0021)	SeriesDate	DA
(0x0008,0x0022)	AcquisitionDate	DA
(0x0008,0x002a)	AcquisitionDateTime	DT

(0x0008,0x0030)	StudyTime	TM
(0x0008,0x0031)	SeriesTime	TM
(0x0008,0x0032)	AcquisitionTime	TM
(0x0008,0x0050)	AccessionNumber	SH
(0x0008,0x0060)	Modality	CS
(0x0008,0x0064)	ConversionType	CS
(0x0008,0x0070)	Manufacturer	LO
(0x0008,0x0080)	InstitutionName	LO
(0x0008,0x0090)	ReferringPhysicianName	PN
(0x0008,0x0201)	TimezoneOffsetFromUTC	SH
(0x0008,0x1010)	StationName	SH
(0x0008,0x1030)	StudyDescription	LO
(0x0008,0x103e)	SeriesDescription	LO
(0x0008,0x1040)	InstitutionalDepartmentName	LO
(0x0008,0x1090)	ManufacturerModelName	LO
(0x0008,0x2111)	DerivationDescription	ST
(0x0010,0x0010)	PatientName	PN
(0x0010,0x0020)	PatientID	LO
(0x0010,0x0030)	PatientBirthDate	DA
(0x0010,0x0040)	PatientSex	CS
(0x0010,0x1010)	PatientAge	AS
(0x0018,0x0010)	ContrastBolusAgent	LO
(0x0018,0x0050)	SliceThickness	DS
(0x0018,0x0080)	RepetitionTime	DS
(0x0018,0x0081)	EchoTime	DS
(0x0018,0x0082)	InversionTime	DS
(0x0018,0x0088)	SpacingBetweenSlices	DS
(0x0018,0x1009)	UniqueDeviceIdentifier	UT
(0x0018,0x100a)	UDISequence	SQ
(0x0018,0x1030)	ProtocolName	LO
(0x0018,0x1314)	FlipAngle	DS
(0x0018,0x2010)	NominalScannedPixelSpacing	DS
(0x0020,0x000d)	StudyInstanceUID	UI
(0x0020,0x000e)	SeriesInstanceUID	UI

(0x0020,0x0010)	StudyID	SH
(0x0020,0x0011)	SeriesNumber	IS
(0x0020,0x0013)	InstanceNumber	IS
(0x0020,0x0020)	PatientOrientation	CS
(0x0020,0x0032)	ImagePositionPatient	DS
(0x0020,0x0037)	ImageOrientationPatient	DS
(0x0020,0x0052)	FrameOfReferenceUID	UI
(0x0020,0x0105)	NumberOfTemporalPositions	IS
(0x0020,0x1002)	ImagesInAcquisition	IS
(0x0020,0x1041)	SliceLocation	DS
(0x0028,0x0002)	SamplesPerPixel	US
(0x0028,0x0004)	PhotometricInterpretation	CS
(0x0028,0x0006)	PlanarConfiguration	US
(0x0028,0x0010)	Rows	US
(0x0028,0x0011)	Columns	US
(0x0028,0x0030)	PixelSpacing	DS
(0x0028,0x0100)	BitsAllocated	US
(0x0028,0x0101)	BitsStored	US
(0x0028,0x0102)	HighBit	US
(0x0028,0x0103)	PixelRepresentation	US
(0x0028,0x1050)	WindowCenter	DS
(0x0028,0x1051)	WindowWidth	DS
(0x0028,0x1054)	RescaleType	LO
(0x0061,0x0010)	PrivateCreator	LO
(0x0061,0x1001)	CMN JSON Structure	OB
(0x7fe0,0x0010)	PixelData	OB

Table 6: Egress single frame DICOM headers

DICOM tag	DICOM tag name	VR
(0x0008,0x0005)	SpecificCharacterSet	CS
(0x0008,0x0008)	ImageType	CS
(0x0008,0x0012)	InstanceCreationDate	DA
(0x0008,0x0013)	InstanceCreationTime	TM

(0x0008,0x0014)	InstanceCreatorUID	UI
(0x0008,0x0016)	SOPClassUID	UI
(0x0008,0x0018)	SOPInstanceUID	UI
(0x0008,0x0020)	StudyDate	DA
(0x0008,0x0021)	SeriesDate	DA
(0x0008,0x0022)	AcquisitionDate	DA
(0x0008,0x002a)	AcquisitionDateTime	DT
(0x0008,0x0030)	StudyTime	TM
(0x0008,0x0031)	SeriesTime	TM
(0x0008,0x0032)	AcquisitionTime	TM
(0x0008,0x0033)	ContentTime	TM
(0x0008,0x0050)	AccessionNumber	SH
(0x0008,0x0060)	Modality	CS
(0x0008,0x0064)	ConversionType	CS
(0x0008,0x0070)	Manufacturer	LO
(0x0008,0x0080)	InstitutionName	LO
(0x0008,0x0090)	ReferringPhysicianName	PN
(0x0008,0x0201)	TimezoneOffsetFromUTC	SH
(0x0008,0x1010)	StationName	SH
(0x0008,0x1030)	StudyDescription	LO
(0x0008,0x103e)	SeriesDescription	LO
(0x0008,0x1040)	InstitutionalDepartmentName	LO
(0x0008,0x1090)	ManufacturerModelName	LO
(0x0008,0x2111)	DerivationDescription	ST
(0x0010,0x0010)	PatientName	PN
(0x0010,0x0020)	PatientID	LO
(0x0010,0x0030)	PatientBirthDate	DA
(0x0010,0x0040)	PatientSex	CS
(0x0010,0x1010)	PatientAge	AS
(0x0010,0x1030)	PatientWeight	DS
(0x0010,0x21c0)	PregnancyStatus	US
(0x0018,0x0010)	ContrastBolusAgent	LO
(0x0018,0x0050)	SliceThickness	DS
(0x0018,0x0080)	RepetitionTime	DS

(0x0018,0x0081)	EchoTime	DS
(0x0018,0x0082)	InversionTime	DS
(0x0018,0x0087)	MagneticFieldStrength	DS
(0x0018,0x0088)	SpacingBetweenSlices	DS
(0x0018,0x1000)	DeviceSerialNumber	LO
(0x0018,0x1009)	UniqueDeviceIdentifier	UT
(0x0018,0x100a)	UDISequence	SQ
(0x0018,0x1030)	ProtocolName	LO
(0x0018,0x1060)	TriggerTime	DS
(0x0018,0x1314)	FlipAngle	DS
(0x0018,0x2010)	NominalScannedPixelSpacing	DS
(0x0018,0x5100)	PatientPosition	CS
(0x0018,0x9009)	InversionRecovery	CS
(0x0018,0x9073)	AcquisitionDuration	FD
(0x0018,0x9087)	DiffusionBValue	FD
(0x0018,0x9089)	DiffusionGradientOrientation	FD
(0x0020,0x000d)	StudyInstanceUID	UI
(0x0020,0x000e)	SeriesInstanceUID	UI
(0x0020,0x0010)	StudyID	SH
(0x0020,0x0011)	SeriesNumber	IS
(0x0020,0x0012)	AcquisitionNumber	IS
(0x0020,0x0013)	InstanceNumber	IS
(0x0020,0x0020)	PatientOrientation	CS
(0x0020,0x0032)	ImagePositionPatient	DS
(0x0020,0x0037)	ImageOrientationPatient	DS
(0x0020,0x0052)	FrameOfReferenceUID	UI
(0x0020,0x0100)	TemporalPositionIdentifier	IS
(0x0020,0x0105)	NumberOfTemporalPositions	IS
(0x0020,0x1002)	ImagesInAcquisition	IS
(0x0020,0x1041)	SliceLocation	DS
(0x0020,0x9128)	TemporalPositionIndex	UL
(0x0028,0x0002)	SamplesPerPixel	US
(0x0028,0x0004)	PhotometricInterpretation	CS
(0x0028,0x0006)	PlanarConfiguration	US

(0x0028,0x0010)	Rows	US
(0x0028,0x0011)	Columns	US
(0x0028,0x0030)	PixelSpacing	DS
(0x0028,0x0100)	BitsAllocated	US
(0x0028,0x0101)	BitsStored	US
(0x0028,0x0102)	HighBit	US
(0x0028,0x0103)	PixelRepresentation	US
(0x0028,0x0106)	SmallestImagePixelValue	US
(0x0028,0x0107)	LargestImagePixelValue	US
(0x0028,0x1050)	WindowCenter	DS
(0x0028,0x1051)	WindowWidth	DS
(0x0028,0x1052)	RescaleIntercept	DS
(0x0028,0x1053)	RescaleSlope	DS
(0x0028,0x1054)	RescaleType	LO
(0x0061,0x0010)	PrivateCreator	LO
(0x0061,0x1001)	CMN JSON Structure	OB
(0x7fe0,0x0010)	PixelData	OB

Table 7: Unique egress single frame DICOM headers

11 Private DICOM headers

For DICOM exported images, CMN includes a private header containing CMN specific information as described below.

The added private header has group number 0x0061. Since this header is only written in derived series created by CMN, the creator element is always located at 0x0010 using the creator name "Cercare Medical Neurosuite", and the single data bearing tag of type OB (other byte) is stored in element 0x1001 with the tag description "CMN JSON Structure".

A single header is used to contain all CMN specific information. In order to simplify the readability of this header, the data is written in accordance with the JSON standard (JSON standard). Note that the tag's value representation (VR) is set to OB, and the bytes contained therein are encoded as UTF-8.