## 4.18.5 Resource ImagingStudy - Formal Definitions

Formal definitions for the elements in the imagingstudy resource.

|  |  |
| --- | --- |
| **ImagingStudy** | |
| Definition | Manifest of a set of images produced in study. The set of images may include every image in the study, or it may be an incomplete sample, such as a list of key images. |
| [Control](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\conformance-rules.html" \l "conformance) | 1..1 |
| Aliases | Manifest; XDS-I summary; Key Images |
| **ImagingStudy.dateTime** | |
| Definition | Date and Time the study took place. |
| [Control](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\conformance-rules.html" \l "conformance) | 0..1 |
| [Type](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html) | [dateTime](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html" \l "dateTime) |
| Aliases | StudyDate; StudyTime |
| **ImagingStudy.subject** | |
| Definition | Who the images are of. |
| [Control](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\conformance-rules.html" \l "conformance) | 1..1 |
| [Type](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html) | [Resource](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\references.html" \l "Resource)([Patient](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\patient.html" \l "Patient)) |
| **ImagingStudy.uid** | |
| Definition | Formal identifier for the study. |
| [Control](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\conformance-rules.html" \l "conformance) | 1..1 |
| [Type](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html) | [oid](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html" \l "oid) |
| Aliases | StudyInstanceUID |
| **ImagingStudy.accessionNo** | |
| Definition | Accession Number. |
| [Control](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\conformance-rules.html" \l "conformance) | 0..1 |
| [Type](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html) | [Identifier](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html" \l "Identifier) |
| Aliases | AccessionNumber |
| **ImagingStudy.identifier** | |
| Definition | Other identifiers for the study. |
| [Control](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\conformance-rules.html" \l "conformance) | 0..\* |
| [Type](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html) | [Identifier](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html" \l "Identifier) |
| Aliases | Study ID |
| **ImagingStudy.order** | |
| Definition | A list of the diagnostic orders that resulted in this imaging study being performed. |
| [Control](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\conformance-rules.html" \l "conformance) | 0..\* |
| [Type](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html) | [Resource](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\references.html" \l "Resource)([DiagnosticOrder](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\diagnosticorder.html" \l "DiagnosticOrder)) |
| Requirements | To support grouped procedures (one imaging study supporting multiple ordered procedures, e.g., chest/abdomen/pelvis CT). |
| Comments | The order(s) can be inferred from information such as accession numbers, but the details of this depend on local workflow management. Note that there is a many-many relationship between orders and studies. |
| **ImagingStudy.modality** | |
| Definition | A list of all the Series.ImageModality values that are actual acquisition modalities, i.e. those in the DICOM Context Group 29 (value set OID 1.2.840.10008.6.1.19). |
| [Control](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\conformance-rules.html" \l "conformance) | 0..\* |
| [Binding](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\terminologies.html) | ImagingModality : Type of acquired image data in the instance (see [http://hl7.org/fhir/imaging-modality](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\imaging-modality.html) for values) |
| [Type](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html) | [code](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html" \l "code) |
| Aliases | ModalitiesInStudy |
| **ImagingStudy.referrer** | |
| Definition | The requesting/referring physician. |
| [Control](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\conformance-rules.html" \l "conformance) | 0..1 |
| [Type](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html) | [Resource](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\references.html" \l "Resource)([Practitioner](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\practitioner.html" \l "Practitioner)) |
| Aliases | ReferringPhysiciansName |
| **ImagingStudy.availability** | |
| Definition | Availability of study (online, offline or nearline). |
| [Control](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\conformance-rules.html" \l "conformance) | 0..1 |
| [Binding](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\terminologies.html) | InstanceAvailability : Availability of the resource (see [http://hl7.org/fhir/instance-availability](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\instance-availability.html) for values) |
| [Type](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html) | [code](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html" \l "code) |
| Aliases | InstanceAvailability |
| **ImagingStudy.url** | |
| Definition | WADO-RS URI where Study is available. |
| [Control](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\conformance-rules.html" \l "conformance) | 0..1 |
| [Type](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html) | [uri](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html" \l "uri) |
| Aliases | RetrieveURI |
| **ImagingStudy.numberOfSeries** | |
| Definition | Number of Series in Study. |
| [Control](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\conformance-rules.html" \l "conformance) | 1..1 |
| [Type](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html) | [integer](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html" \l "integer) |
| Aliases | NumberOfStudyRelatedSeries |
| **ImagingStudy.numberOfInstances** | |
| Definition | Number of SOP Instances in Study. |
| [Control](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\conformance-rules.html" \l "conformance) | 1..1 |
| [Type](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html) | [integer](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html" \l "integer) |
| Aliases | NumberOfStudyRelatedInstances |
| **ImagingStudy.clinicalInformation** | |
| Definition | Diagnoses etc provided with request. |
| [Control](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\conformance-rules.html" \l "conformance) | 0..1 |
| [Type](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html) | [string](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html" \l "string) |
| Aliases | Admitting Diagnoses Description |
| **ImagingStudy.procedure** | |
| Definition | Type of procedure performed. |
| [Control](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\conformance-rules.html" \l "conformance) | 0..\* |
| [Type](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html) | [Coding](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html" \l "Coding) |
| Aliases | Procedure Code Sequence |
| **ImagingStudy.interpreter** | |
| Definition | Who read study and interpreted the images. |
| [Control](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\conformance-rules.html" \l "conformance) | 0..1 |
| [Type](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html) | [Resource](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\references.html" \l "Resource)([Practitioner](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\practitioner.html" \l "Practitioner)) |
| Aliases | Name of Physician(s) Reading Study |
| Comments | or is this 4008,010C?. |
| **ImagingStudy.description** | |
| Definition | Institution-generated description or classification of the Study (component) performed. |
| [Control](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\conformance-rules.html" \l "conformance) | 0..1 |
| [Type](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html) | [string](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html" \l "string) |
| **ImagingStudy.series** | |
| Definition | Each study has one or more series of image instances. |
| [Control](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\conformance-rules.html" \l "conformance) | 0..\* |
| **ImagingStudy.series.number** | |
| Definition | The number of this series in the overall sequence. |
| [Control](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\conformance-rules.html" \l "conformance) | 0..1 |
| [Type](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html) | [integer](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html" \l "integer) |
| Aliases | SeriesNumber |
| **ImagingStudy.series.modality** | |
| Definition | The modality of this series sequence. |
| [Control](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\conformance-rules.html" \l "conformance) | 1..1 |
| [Binding](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\terminologies.html) | Modality : Type of data in the instance (see [http://hl7.org/fhir/modality](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\modality.html) for values) |
| [Type](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html) | [code](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html" \l "code) |
| Aliases | Modality |
| **ImagingStudy.series.uid** | |
| Definition | Formal identifier for this series. |
| [Control](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\conformance-rules.html" \l "conformance) | 1..1 |
| [Type](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html) | [oid](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html" \l "oid) |
| Aliases | SeriesInstanceUID |
| **ImagingStudy.series.description** | |
| Definition | A description of the series. |
| [Control](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\conformance-rules.html" \l "conformance) | 0..1 |
| [Type](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html) | [string](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html" \l "string) |
| Aliases | SeriesDescription |
| **ImagingStudy.series.numberOfInstances** | |
| Definition | Sequence that contains attributes from the. |
| [Control](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\conformance-rules.html" \l "conformance) | 1..1 |
| [Type](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html) | [integer](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html" \l "integer) |
| Aliases | NumberOfSeriesRelatedInstances |
| **ImagingStudy.series.availability** | |
| Definition | Availability of series (online, offline or nearline). |
| [Control](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\conformance-rules.html" \l "conformance) | 0..1 |
| [Binding](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\terminologies.html) | InstanceAvailability : Availability of the resource (see [http://hl7.org/fhir/instance-availability](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\instance-availability.html) for values) |
| [Type](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html) | [code](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html" \l "code) |
| Aliases | InstanceAvailability |
| **ImagingStudy.series.url** | |
| Definition | WADO-RS URI where Series is available. |
| [Control](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\conformance-rules.html" \l "conformance) | 0..1 |
| [Type](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html) | [uri](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html" \l "uri) |
| Aliases | RetrieveURI |
| **ImagingStudy.series.bodySite** | |
| Definition | Body part examined. See DICOM Part 16 Annex L for the mapping from DICOM to Snomed. |
| [Control](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\conformance-rules.html" \l "conformance) | 0..1 |
| [Binding](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\terminologies.html) | BodySite : SNOMED CT Body site concepts ([Value Set Definition](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\valueset-body-site.html)) |
| [Type](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html) | [Coding](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html" \l "Coding) |
| Aliases | BodyPartExamined |
| **ImagingStudy.series.dateTime** | |
| Definition | When the series started. |
| [Control](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\conformance-rules.html" \l "conformance) | 0..1 |
| [Type](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html) | [dateTime](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html" \l "dateTime) |
| **ImagingStudy.series.instance** | |
| Definition | A single image taken from a patient. |
| [Control](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\conformance-rules.html" \l "conformance) | 1..\* |
| **ImagingStudy.series.instance.number** | |
| Definition | The number of this image in the series. |
| [Control](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\conformance-rules.html" \l "conformance) | 0..1 |
| [Type](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html) | [integer](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html" \l "integer) |
| Aliases | Instance Number |
| **ImagingStudy.series.instance.uid** | |
| Definition | Formal identifier for this image. |
| [Control](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\conformance-rules.html" \l "conformance) | 1..1 |
| [Type](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html) | [oid](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html" \l "oid) |
| Aliases | SOP Instance UID |
| **ImagingStudy.series.instance.sopclass** | |
| Definition | DICOM Image type. |
| [Control](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\conformance-rules.html" \l "conformance) | 1..1 |
| [Type](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html) | [oid](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html" \l "oid) |
| Aliases | SOP Class UID |
| **ImagingStudy.series.instance.type** | |
| Definition | Type of instance (image etc) (0004,1430). |
| [Control](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\conformance-rules.html" \l "conformance) | 0..1 |
| [Type](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html) | [string](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html" \l "string) |
| Aliases | Directory Record Type |
| **ImagingStudy.series.instance.title** | |
| Definition | Description (0070,0080 | 0040,A043 > 0008,0104 | 0042,0010 | 0008,0008). |
| [Control](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\conformance-rules.html" \l "conformance) | 0..1 |
| [Type](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html) | [string](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html" \l "string) |
| **ImagingStudy.series.instance.url** | |
| Definition | WADO-RS url where image is available. |
| [Control](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\conformance-rules.html" \l "conformance) | 0..1 |
| [Type](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html) | [uri](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html" \l "uri) |
| Comments | Each instance may have a url and an attachment. Both represent the same information, but using different approaches. The URL is a reference to a WADO-RS service that makes the instance available. |
| **ImagingStudy.series.instance.attachment** | |
| Definition | A FHIR resource with content for this instance. |
| [Control](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\conformance-rules.html" \l "conformance) | 0..1 |
| [Type](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\datatypes.html) | [Resource](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\references.html" \l "Resource)([Any](C:\\Users\\sirLoin1\\SkyDrive Pro\\HL7_working_docs\\resourcelist.html" \l "Any)) |
| Comments | Each instance may have a url and an attachment. Both represent the same information, but using different approaches. The attachment is a reference to a FHIR resource (Media, Document, etc). |