				Colour Legend		
Final version after processing the results of discussion in the working group						
This will become a collection of all tables; after reviewing per item				**Row colours**	**mandatory/recommended/option**	
					mandatory and mandatory if applicable	
Review the sheet Treatment_Review				Confirmed elements		
Please leave comments including your name and date				Newly added elements - for review		
If done with review (even if no remarks/comments) add your name below under Reviewers of this version					recommended	
					optional	
Note: The HealthDCAT-AP column will be mostly complete for the "metadata submission class (new class name for Submitter) since that class is all about metadata during submission of a dataset. For other classes we only provide an entry in this column if information of that specific concept can be harvested/used to provide metadata during submission.					conditional	
Note on mandatory fields with lists (but not strings): also HL7 NULL flavors will be allowed						

Version history; Items added per version

Items	Date version release
Treatment	2024-08-28

Authors of latest version:

Name	Date version release
Ana Konrad	2025-01-30
Hannah Neikes	2025-01-30
Jeroen Belien	2025-01-30
Joeri van der Velde	2025-01-30
Abhishek Nayak	2025-01-30
Aedin Culhane	2025-01-30

Reviewers of latest version

Name	Date
Mikael Kronborg	2025-02-10
Richard Hagan	2025-02-10
Milan Ojsteršek	2025-02-11

Michela Riba	2025-02-11							
Edel Cahalin	2025-02-10							
Hannele Laivuori	2025-02-10							

Suggested_Union_Domain/class/table	Suggested Union Item	Suggested_Union_Proposed_Definition	Suggested_Union_Proposed_Values	Suggested_Union_Proposed_cardinality	Suggested_union_mandatory/recommended/optional	If conditional, terms of condition stated here	Part of sunflower	Link to terminology/ontology that defines item	Link to terminology/ontology that defines item	Reasoning/explanation/evidence of/for suggestion	Concept: Exact match with	Concept: close match with	Value list: Exact match with	Value list: Close match with	Example data	Link to terminology/ontology that defines the class	Class: Exact match with	Class: close match with
Treatment	Intention_to_Treat	Indicate the intended disease-outcome for which the treatment is given; may be coded as SNOMED-CT	373808002 Curative - procedure intent 373847000 Neoadjuvant intent 373846009 Adjuvant - intent 363676003 Palliative - procedure intent 360271000 Prophylaxis - procedure intent 243114000 Support (regime/therapy) 129004002 Excision - action 261004008 Diagnostic intent 128422001 Preventive - intent 428892002 Guidance intent 360159006 Screening - procedure intent 447056006 Forensic intent Other - HL7 NULL flavor (OTH, UNK, NI, NA)	0..1	optional	na	Core	[snia/SILT/Bio-mCODE-ip/ValueSet-mcode-procedu](#)	373808002 Curative - procedure intent 373847000 Neoadjuvant intent 373846009 Adjuvant - intent 363676003 Palliative - procedure intent 360271000 Prophylaxis - procedure intent 243114000 Support (regime/therapy) 129004002 Excision - action 261004008 Diagnostic intent 128422001 Preventive - intent 428892002 Guidance intent 360159006 Screening - procedure intent 447056006 Forensic intent Other - HL7 NULL flavor (OTH, UNK, NI, NA)							[https://ncithesaurus.nci.nih.gov/ncitbrowser/ConceptReport.jsf?dictionary=nci&ns=ncit&code=C49236](#)		[https://hl7.org/fhir/R4/procedure.html](#)
Treatment	Setting	Indicate the treatment setting, which describes the treatment's purpose in relation to the primary treatment. (Reference: NCI C124308)	Adjuvant Advanced/Metastatic Neoadjuvant Not applicable	0..1	optional	na	Core	[http://purl.obolibrary.org/obo/NCIT_C124308](#)	Adjuvant Advanced/Metastatic Neoadjuvant Not applicable								
Treatment	Type	Indicates the type of treatment regimen that the patient completed; coded values can be chosen, SNOMED may be chosen for "procedures"	Bone marrow transplant - 22719005 Chemotherapy - 367336001 Medication - 18629005 Endoscopic therapy - 423827005 Hormonal therapy - 169413002 Immunotherapy - 76334006 Photodynamic therapy - 257891001 Radiation therapy - 128774200 3 Radionucleotide therapy - 56305001 Stem cell transplant - 1260246606 Surgery - 387713003 Gene therapy - 364613000 Watchful waiting - 310341009 or 373819007 Active follow-up - 424313000 Chemoradiotherapy - 703423002 Other - HL7 NULL flavor (NI, NA, OTH)	1..1	mandatory	na	Core	[https://bioc.sgo-argo.org/disonary](#)	Bone marrow transplant - 22719005 Chemotherapy - 367336001 Medication - 18629005 Endoscopic therapy - 423827005 Hormonal therapy - 169413002 Immunotherapy - 76334006 Photodynamic therapy - 257891001 Radiation therapy - 128774200 3 Radionucleotide therapy - 56305001 Stem cell transplant - 1260246606 Surgery - 387713003 Gene therapy - 364613000 Watchful waiting - 310341009 or 373819007 Active follow-up - 424313000 Chemoradiotherapy - 703423002 Other - HL7 NULL flavor (NI, NA, OTH)								
Treatment	Subtype	Detailed specification of the treatment type	String	0..1	optional	na	Core		NA								
Treatment	Line	Indicate if the treatment was the primary treatment following the initial diagnosis or 2nd, 3rd,...	String	0..1	optional	na	Core	[http://snomed.info/id/262857001](#)									
Treatment	treatmentCode	A drug product that contains one or more active and/or inactive ingredients used by the patient intended to treat, prevent or alleviate the symptoms of disease. Any hormone therapies, gender-related or otherwise, should also be recorded here.	ATC codes, IDMP when available. In case of cancer: HEMONC, RxNorm	1..n	conditional	if Type == (Chemotherapy or Hormonal, etc)	Core	[http://purl.obolibrary.org/obo/NCIT_C459](#)	ATC codes, IDMP when available. In case of cancer: HEMONC, RxNorm								
Treatment	Date_start_overall	The date and time of the (start of) the treatment.	ISO8601 Date	0..1	recommended	na	Core	[http://purl.obolibrary.org/obo/NCIT_C69459](#)	[https://www.iso.org/iso-8601-date-and-time-format.html](#)								
Treatment	Date_end_overall	The date and time of the end of the overall treatment.	ISO8601 Date	0..1	recommended	na	Core	[http://purl.obolibrary.org/obo/NCIT_C69459](#)	[https://www.iso.org/iso-8601-date-and-time-format.html](#)								
Treatment	Intended Duration	The duration of treatment regimen, in days	Integer	0..1	optional	na	Core	[http://purl.obolibrary.org/obo/NCIT_C168202](#)	NA	could be renamed to 'intended duration' because start/end might be influenced by patient death or other reasons why treatment ceased							
Treatment	DoseUnits	Indicates the total dose given in units (e.g. of Gray (Gy) when radiation, Milligrams/24hours for medication)	Choice/list with most common DoseUnits, like Gray, Milligrams/24 hours; make use of UCUM (https://ucum.org/)	0..1	optional	na	Core	[https://ucum.org/](#) [http://snomed.info/id/258818006](#)	[https://ucum.org/](#)								
Treatment	cumulativeDose	The amount of any substance administered over a specific period of time	Float	0..1	optional	na	Core										
Treatment	doseInterval	The number of times a substance is administered within a specific time period.	ISO8601 Period	0..1	optional	na	Core	[http://purl.obolibrary.org/obo/NCIT_C68081](#)	[https://www.iso.org/iso-8601-date-and-time-format.html](#)								
Treatment	routeOfAdministration	Designation of the part of the body through which or into which, or the way in which, the medicinal product is intended to be introduced. In some cases a medicinal product can be intended for more than one route and/or method of administration.	Subclasses of Anatomy Qualifier	0..n	optional	na	Core	[http://purl.obolibrary.org/obo/NCIT_C38114](#)	Subclasses of Anatomy Qualifier								
Treatment	Pre-Treated	Indicates if disease has been pre-treated or is in course of treatment	boolean	0..1	optional	na	Core	-	-								
Treatment	Procedures	Indicates the type of treatment regimen that the patient completed; coded values can be chosen, SNOMED may be chosen for "procedures"	Children of SNOMED procedures	0..1	optional	na	Core	[http://snomed.info/id/71388002](#)	Children of SNOMED procedures								
Treatment	Surgical resection quality	Evaluation of the surgical resection quality based on coded values	1228638005 (American Joint Committee on Cancer R0 qualifier value) 1228639002 (American Joint Committee on Cancer R1 qualifier value) 1228640000 (American Joint Committee on Cancer R2 qualifier value) 1228641001 (American Joint Committee on Cancer RX qualifier value)	0..1	conditional	if Type == surgery	Core	[https://github.com/sinc-cenle/OGIRIS/block/master/documentation/ModeleCliniqueOSIRIS-english_version.pdf](#)	1228638005 (American Joint Committee on Cancer R0 qualifier value) 1228639002 (American Joint Committee on Cancer R1 qualifier value) 1228640000 (American Joint Committee on Cancer R2 qualifier value) 1228641001 (American Joint Committee on Cancer RX qualifier value)								
Treatment	Treatment_Status	the prescribed treatment (coded values, e.g. treatment	182662009 Treatment completed (situation) 445526004 Treatment changed (situation) 405613005 Planned procedure (situation) 416406003 Procedure discontinued (situation)	0..1	recommended	na	Core	[http://purl.obolibrary.org/obo/NCIT_C18819](#)	182662009 Treatment completed (situation) 445526004 Treatment changed (situation) 405613005 Planned procedure (situation) 416406003 Procedure discontinued (situation)								
Treatment	Reason_for_incomplete_Treatment	Reason for discontinuation of the treatment.	419099009 Dead (finding) 1266859006 Procedure declined (situation) 713247000 Procedure discontinued by patient (situation) 713246009 Procedure discontinued by healthcare professional (situation) 266721009 Absent response to treatment (situation) 407563006 Treatment not tolerated (situation) technical or organizational problems (to be added, or use OTH Other - HL7 null flavour OTH Not applicable (HL7 null flavour, NA No information (HL7 null flavour, NI	0..1	conditional	if Treatment_Status == 416406003) Procedure discontinued (situation)	Core		419099009 Dead (finding) 1266859006 Procedure declined (situation) 713247000 Procedure discontinued by patient (situation) 713246009 Procedure discontinued by healthcare professional (situation) 266721009 Absent response to treatment (situation) 407563006 Treatment not tolerated (situation) technical or organizational problems (to be added, or use OTH Other - HL7 null flavour OTH Not applicable (HL7 null flavour, NA No information (HL7 null flavour, NI								
Treatment	Response_to_Treatment	The patients' response to the applied treatment regimen. (Source: RECIST)	Complete response Disease progression NED Partial response Stable disease	0..1	optional	na	Core	[http://snomed.info/id/182865004](#)									
Treatment	Adverse_Events	Reports any treatment related adverse events. (Codelist reference: NCI-CTCAE (v5.0))	CTCAE codes	0..n	optional	na	Core	[http://purl.obolibrary.org/obo/NCIT_C41331](#)	CTCAE codes								
Treatment	Toxicity_Type	If the treatment was terminated early due to acute toxicity, indicate the type of toxicity that caused early termination of treatment	Children of Toxicity (NCIT)	0..1	optional	na	Core	[http://purl.obolibrary.org/obo/NCIT_C27990](#)	Children of Toxicity (NCIT)								
Treatment	Modality	Indicates the method of radiation treatment or modality	Electron Heavy Ions Photon Proton	0..n	conditional	if Type == Radiation therapy	Cancer	[http://purl.obolibrary.org/obo/NCIT_C41147](#)	Electron Heavy Ions Photon Proton								
Treatment	Fractions	Indicates the total number of fractions delivered as part of radiation treatment	integer	0..1	conditional	if Type == Radiation therapy	Cancer	[http://purl.obolibrary.org/obo/NCIT_C15664](#)									
Treatment	Site	Indicates the body region where radiation therapy was administered	Children concepts of Anatomical structure (body structure)	0..n	conditional	if Type == Radiation therapy	Cancer	[http://purl.obolibrary.org/obo/NCIT_C157106](#)	Children concepts of Anatomical structure (body structure)								

Note: the cardinality/relation of this Treatment class will be part of the visualisation/schema/UML-diagram (this class will have a relation with co-morbidity class and the disease class → treatments are related to a certain disease, like cancer, but optionally sometimes treatments of co-morbidities are relevant as well)