

Supplementary Information

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Supplementary Table 1 Metadata Crosswalk

Meaning of local metadata items	OMOP	openEHR	FHIR	CDISC
Version of the metadata	metadata_concept_id	versionID	Meta.versionID	ODM/Study/MetaDataVersion
Identifier of the type of information	metadata_type_concept_id			
Name of the metadata version	name			ODM/Study/MetaDataVersion/ Name
Metadata value as string	value_as_string			
Metadata value as concept	value_as_concept_id			
Date of the metadata creation	metadata_date		DataRequirement(DataRequireme nt.dateFilter, DataRequirement.dateFilter.path, DataRequirement.dateFilter.search Param, DataRequirement.dateFilter.value) Meta.lastUpdated	ODM/AsOfDatetime
Datetime of the metadata creation	metadata_datetime		Meta.lastUpdated	ODM/AsOfDatetime
Full name of the source	cdm_source_name	resource_description:parent_resource	Meta.profile	def:Origin
Abbreviation of the source name, if applicable	cdm_source_abbreviation			def:Origin
contributor or publisher of the source data	cdm_holder	resource_description: original_author/Resource_description: original_publisher	Contributor (Contributor.type, Contributor.name)	def:Origin
Description of the source data origin and purpose for collection	source_description	resource_description_item:purpose	DataRequirement.type	def:Origin
External reference to the location of the source	source_documentation_ reference	resource_description_item:original _resource_uri	DataRequirement.profile	def:Origin
External reference to ETL specification documentation and ETL source code	cdm_etl_reference			ProtocolName
Date for which the source data are most current (e.g. last day of data capture)	source_release_date	timestamp of committal or creation of the item		
Date when the common data model was instantiated	cdm_release_date			
Version of the common data model	cdm_version			

Version of the vocabulary used	vocabulary_version			CodeList, CodeListItem
Information about the data lifecycle state		resource_description: lifecycle_state		def:AnnotatedCRF
Namespace of originals author's organisation		resource_description:original_namespace		
Other contributors to the source		resource_description:other_contributors		
Namespace of current custodian organisation		resource_description:custodian_namespace		
Text name of current custodian organisation		resource_description:custodian_organisation	Contributor.Contact	
Copyright statement		resource_description: copyright		
Licence information		resource_description:license		
List of acknowledgements of other terminology codes, ontology ids referenced		resource_description:ip_acknowledgements		
Reference list of material to the artifact		resource_description:references	RelatedArtifact (RelatedArtifact.type; RelatedArtifact.label; RelatedArtifact.display; RelatedArtifact.citation; RelatedArtifact.url; RelatedArtifact.document; RelatedArtifact.resource)	def:LeafElement
URI to which this resource belongs		resource_description:resource_package_uri		
Details of the conversion process/generation of the model		resource_description:conversion_details		
Additonal resource metadata		resource_description:other_details	DataRequirement.mustSupport	def:CommentDef
Details of all parts of resource description in natural language		resource_description:details	DataRequirement.subject	StudyDescription
Localised language of the data items		resource_description_item:language		
Keywords describing the resource		resource_description_item:keywords		
Context or use of the resource		resource_description_item:use	UsageContext (UsageContext.code; UsageContext.value)	StudyDescription
Misuse of the resource		resource_description_item:misuse		
Additional metadata of the data item		resource_description_item:other_details	DataRequirement.codeFilter.searchParam;	def:ValueListDef

Sorting specifications of required data (ascending, descending)	DataRequirement.codeFilter.value Set; DataRequirement.codeFilter; DataRequirement.codeFilter.path; DataRequirement.codeFilter.code DataRequirement.limit DataRequirement.sort, DataRequirement.sort.path; DataRequirement.sort.direction	
Definition of Events when to evaluate a data item	TriggerDefinition (TriggerDefinition.type, TriggerDefinition.name; TriggerDefinition.timing[x]; TriggerDefinition.data; TriggerDefinition.condition)	
Expression, to generate a value	Expression (Expression.description; Expression.name; Expression.language; Expression.expression; Expression.reference)	
Supplemental Documentation		def:SupplementalDoc
Definition of standard used for the data item		Def:Standards(specifies name, type, status)
Definition of the obtainability of data from a data collection		MethodDef

Comparison of metadata from different data formats frequently used in healthcare information systems and medical research

Note. OMOP Observational Medical Outcome Partnership, openEHR open Electronical Health Records, FHIR Fast Healthcare Interoperability Resources, CDISC Clinical Data Interchange Standards Consortium