CESSDA Work Plan 2020

CESSDA Euro Question Bank 2020

D9 A report of the EQB Metadata Schema with a list of requirements to incorporate SPs' metadata into EQB

Document info

Dissemination Level	PU
Due Date of Deliverable	31/12/2020
Actual Submission Date	11/12/2020
Type	Report
Approval Status	Approved by CESSDA Technical Working Group leader John Shepherdson
Version	V1.1
Number of Pages	p.1 – p.42
DOI	10.5281/zenodo.4572440

Version history

Version	Date	Comment	Revised by
0.1	04.12.2020	First draft	Esra Akdeniz
0.2	07.12.2020	First draft revised peer reviewer 1	Sophia Piesch
0.3	09.12.2020	Revised document sent to peer review 2	Wolfgang Zenk-Möltgen
1.0	11.12.2020	Final version sent to CESSDA MO for review	Esra Akdeniz
1.1	22.02.2021	Revisions made after CMO review	Esra Akdeniz

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Executive Summary

This report addresses all relevant aspects of the CESSDA EQB documentation and retrieval requirements that current or future EQB Service Providers must follow to enable metadata harvesting and integration into the EQB. Archives and institutions providing their metadata to EQB, must agree to the following requirements:

- DDI Lifecycle or Codebook based documentation, which includes at least the mandatory elements of the EQB metadata schema
- harvesting via OAI-PMH or a file-based harvesting

The DDI based EQB metadata schema and a preferred harvesting approach are agreed requirements to retrieve and integrate studies and survey questions into EQB. The EQB metadata schema, which is a subset of the CESSDA metadata model version 2.0, includes all relevant elements to provide user-friendly metadata documentation on the EQB platform. The elements provided in the schema, together with details on the must, should, and could requirements, definitions, used controlled vocabularies and ISO Codes as well as DDI 3.2 XPath examples, are the basis for the EQB backend and frontend components and enable a smooth transition of metadata from the SP to the EQB User Interface.

Abbreviations and Acronyms

CESSDA	Consortium for European Social Science Data Archives
CMV	CESSDA Metadata Validator
CMM	CESSDA Metadata Model
DDI	Data Documentation Initiative
DDIflatDB	Database storage for DDI
EQB	Euro Question Bank
FTP	File Transfer Protocol
http	Hypertext Transfer Protocol
OAI-PMH	Open Archives Initiative Protocol for Metadata Harvesting
SP	Service Provider
UI	User Interface
URL	Uniform Resource Locator
WPT	Work Plan Task
XML	Extensible Markup Language

Introduction

The CESSDA Euro Question Bank (EQB) is a cross-national question bank that integrates and displays metadata from several European archives, mostly CESSDA members, who provide their DDI based documentation by OAI-PMH or file-based access. The platform allows researchers to browse, compare, and download multilingual survey questions and study-related metadata.

This report outlines requirements for the documentation and retrieval of SPs metadata by providing information on

- the DDI metadata standard,
- the two EQB harvesting approaches,
- and the EQB metadata schema v1.0.

The goal of defining requirements in EQB is to build a stable and maintainable search web application with content from CESSDA SPs and other suppliers and to allow a smooth transition of metadata from the EQB backend to the EQB frontend.

Requirements for EQB Service Providers

Service Providers of the EQB are European institutions and archives for the Social Sciences who want to promote their study collections and question-level metadata via a European wide question bank and allow researchers to find and reuse their metadata. The following sections provide information on the requirements that SPs need to fulfil to collaborate with EQB and to allow integration of their metadata into the EQB platform.

DDI based metadata documentation

The Euro Question Bank is based on the DDI-Lifecycle metadata standard[1]. Therefore, EQB Service Providers must contribute documentation from their holdings to the cross-national question bank using DDI standardized metadata, preferably in DDI Lifecycle version 3.2 or DDI Codebook. The EQB metadata schema is compliant with the CESSDA Metadata Model (CMM)[2] and is a subset of the CMM v2.0. Therefore, it is preferred that SPs document and provide their metadata compliant to DDI3.2 and the EQB metadata schema v1.0. Further information on DDI 3.2 XPath examples and the EQB metadata schema can be found in this report's appendix. From 2021, Service Providers of EQB can use the CESSDA metadata validator (CMV) and an EQB DDI profile to validate their DDI metadata.

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[1] https://ddialliance.org/
[2] https://zenodo.org/record/3543756

Harvesting via OAI-PMH in EQB

EQB supports two harvesting approaches for metadata retrieval: harvesting via OAI-PMH and file-based harvesting. For both harvesting mechanisms, the prerequisites, the process of metadata delivery from the SP to EQB, and the process of updates and deletions are described. The default and preferred way of providing metadata to the CESSDA EQB is via the Open Archives Initiatives Protocol for Metadata Harvesting (referred to as the OAI-PMH[3]). It is a well-defined, widely known, and low-barrier mechanism for repository interoperability and adopted protocol for metadata exchange.

Prerequisites and Steps

The implementation of OAI-PMH is clearly defined and requires metadata to be encoded in the supported format for interoperability in general. SPs need to set up an OAI-PMH server (endpoint) component that exposes their metadata in DDI. Each record made available through an OAI-PMH server represents one study and contains all question-related metadata. The URL of that endpoint needs to be known by the CESSDA EQB harvesting component (client).

Initial and continuous harvesting

The harvester installed on the EQB production system starts with an initial, full harvesting process of all records available through the configured OAI endpoints. Once this long-running process is finished, the harvester automatically switches to continuous harvesting: All endpoints are checked daily for new records.

Process of Updates or Deletions

If a question/study needs to be updated or deleted:
- If an XML file for a study was changed, the old version of a file located in the system will be deleted, and the information from the file will be added (update).
- If any kind of metadata has been changed or deleted by the SP, e.g., a question has been deleted; this will be managed when a study and thus the corresponding DDI record will be updated, which then simply contains one less question.

The intention is to avoid manual work steps as far as possible. The OAI-PMH is also clearly defined here. However, the SPs must be aware that they also carry out deletions in conformity with the standard[4]. This means that the EQB harvesting component gets an OAI-PMH response to the GetRecord request with the ID and a header attribute status = "deleted" which will be used to delete the respective record from the index automatically.

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[3] https://www.openarchives.org/pmh/
[4] for more information on deleted records:
http://www.openarchives.org/OAI/openarchivesprotocol.html#DeletedRecords

Therefore, responses to GetRecord[5] requests for a deleted record **must** then include a header[6] with the attribute *status="deleted"* and **must not** include *metadata* or *about* parts.

File-based harvesting in EQB

As not all SPs can provide a valid OAI-PMH server, the EQB development team specified and implemented a file-based harvesting protocol, enabling SPs a direct metadata delivery as a zipped collection of XML files via HTTP. Service partners can choose to provide their metadata as a single-file archive containing the DDI files. The EQB import routine will fetch the archives from the different SPs' servers and ingest its contents into the DDIflatDB, an efficient REST-based database storage for DDI. DDIflatDB handles the different versions of DDI, different grouping, and unequal interpretation of the elements. The DDIflatDB uses different dialect definitions for each metadata element and DDI format and provides a standardized way to query questions and other objects. This component is the prerequisite for indexing the correct metadata elements in the search index[7].

Prerequisites and Steps

1. For harvesting with FTP or HTTP, an agreement with the SPs is needed together with an obligation of the SP to update the file at certain intervals.
2. SPs export their metadata files and compress them to a zip/tar.gz/gz archive with the following conventions:
   a. The archive file
      i. contains only files
      ii. can be compressed using either .zip, .tar.gz or .gz
      iii. example structure of archives
         1. Archive Name: gesisDBK-2020-04-29.tar.gz
         2. Files in the Archive:
            a. gesisDBK-ZA4614.xml
            b. gesisDBK-ZA4800.xml
            c. gesisDBK-ZA5964.xml
            d. …
3. The name of the archive file follows the pattern [servicePartner]-[lastUpdated].[zip|gz|tar.gz], where
   a. servicePartner does not contain special characters, dots or `-`

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[5] http://www.openarchives.org/OAI/openarchivesprotocol.html#GetRecord
[6] http://www.openarchives.org/OAI/openarchivesprotocol.html#header
[7] Hopt, Oliver, Claus-Peter Klas, Wolfgang Zenk-Möltgen, and Alexander Mühlbauer. 2017. "Efficient and Flexible DDI handling for the development of multiple Applications." IASSIST 2017 - Data in the Middle: The common language of research, 24.05.2017.

      b. the lastUpdated part is a date in the format yyyy-mm-dd (year, month, day) indicating the most recent change date of one or more files in the package

4. The names of the DDI files must not vary from one delivery to the next and follow the pattern [servicePartner]-[internalUniqueID].xml

5. The file is made available under a publicly accessible URL using valid SSL encryption
   a. Securing the URL with Basic HTTP authentication is possible but not required.
   b. Similar to the OAI-PMH server URL, the SP communicates the URL (and optional HTTP Basic credentials) to the EQB technical contact.
   c. Changes of that URL have to be communicated a minimum of 14 days before the new URL is made available.

6. The maximum time between two updates of the archive file is 14 days, since this is the very central point of entry.

7. The import routine checks daily if a new archive [servicePartner]-[dateOfGeneration].[gz|tar.gz|zip] is available. If so, the file is downloaded, and the contained files are processed if they are either not yet in the DDIflatDB or have been updated as described below.

8. Optional: Quality management
   a. In order to avoid false entries, full delivery of all metadata records of a service provider should be scheduled for [January 1 of every year]. Providers might not implement any deletion strategy or at least not communicate it through the OAI-PMH. This would lead to a growing number of records in EQB, that are no longer available by the providing institution. The import routine will remove all data from the DDIflatDB that are not present in the first delivery of every year.

Initial and continuous file-based harvesting

The file-based harvesting component on the production system checks daily if new archive files are available. If this is the case, the archive is downloaded and all containing files are imported to the DDIflatDB unless they are marked deleted.

Process of Updates and Deletions

If a question/study needs to be updated or deleted:

- the files in the archive follow a naming convention: [ID of the SP] _ [ID within the namespace of the SP]; this is necessary because the ID can occur multiple times across different SPs.
- If a DDI file is changed (for example, because some questions have been deleted), the SP puts it into the archive as usual; this will be treated like a normal update

- If a DDI record is deleted, the SP replaces the contents of the DDI file with 'DELETED', the import routine of EQB then deletes the entire entry from the index.

Every SP needs to rebuild the archive every day (if there are any changes), and EQB developers need to download and review it every day. Should it overburden the servers of the SP too much, this can be solved by: 1) increasing the interval to weekly 2) Analogous to OAI-PMH together with an agreement with the SP on a kind of incremental provision of the archives with the DDI records. Incremental delivery is under the control of the SP. Depending on the resources, the delivery, i.e. the compilation of the archive file, can be done daily, every 14 days, or at any other frequency between these periods.

1. The DDI files last changed and the created date indicates if a metadata record has been truly updated or not. This means DDI file properties (last changed, created)
   a. Must not be changed, if the metadata has not changed
   b. Must reflect the date of the change, if the metadata has been changed
2. Deletions are handled as follows:
   a. SPs keep an xml file representing the record in the archive when this record is deleted.
   b. This file only contains the word DELETED.
   c. During repeated import, into the DDIflatDB, the routine checks if an entry for that file exists by using the file name as identifier.
   d. If an entry is found in the DDIflatDB, it is deleted.

Description of the EQB Metadata Schema version 1.0

The EQB metadata schema version 1.0 is an essential condition to access and display metadata accurately from all SPs. It shows in a standardized way the overall structure of the EQB model. The schema includes all relevant metadata elements with a specific category of information. The schema is based on the CMM v2.0 and has compatibility with the DDI-Lifecycle metadata standard. The EQB metadata schema and a list of DDI 3.2 DDI XPath examples can be found in the appendix (see table 1 and table 2).

Mandatory Properties

The EQB metadata schema has metadata properties that are mandatory and therefore are a must requirement. SPs of EQB are required to provide the following mandatory properties:

- *questionItem* or *questionGrid* with *ID* and *text*
- *studyTitle*
- *studyPID and studyPIDType*
- *studyNumber and studyNumberType*
- *SPURL*

- *publicationDate*
- *dataAccess*
- *documentationPublisherReference*

Further, it is required that SPs provide language information for all elements that contain content provided in EQB, e.g., *questionItemTextLang.*

Please note that there are additional mandatory elements, which, however, have an optional upper parent element. This means that some child elements need to be provided when their parent element is provided.

Recommended Properties

EQB contains recommended properties that are technically optional properties but are strongly recommended to enhance the metadata quality and quantity. The reasons to label elements as recommended and the corresponding elements can be found below.

- To enhance the quality of question-level metadata documentation
  - *questionItemInterviewerinstruction*
  - *gridDimension*
  - *responseDomainTypes*
  - *variableType*
  - *metadataAccessQuestion*
- To indicate the reference between two elements
  - *referenceItemToResponse*
  - *referenceItemToConcept*
  - *referenceGridToResponse*
  - *referenceCodeToCategory*
  - *referenceStudyToInstrument*
- To provide information for the facet search in EQB within filters
  - *timeMethod*
  - *country*
  - *samplingProcedure*
  - *modeOfCollection*
  - *dataCollectionDate*
- To enhance the documentation on study-level metadata
  - *topicClassification*
  - *CDCURL*
  - *documentURL*
- To provide translation information for multilingual metadata
  - *questionItemNameTrans*
  - *questionItemStatementTrans*

- o *questionItemTextTrans*
- o *questionItemNumberTrans*
- o *showcardFileNameTrans*
- o *questionGridNameTrans*
- o *etc.*
- To provide metadata access information
  - o *metadataAccessQuestion*
  - o *metadataAccessStudy*
  - o *metadataAccessConditionAll*

Controlled Vocabularies

EQB uses controlled vocabularies to provide a consistent way to describe the data. The following controlled vocabularies will aid the EQB users in searching and finding the correct data:

- *timeMethod*[8]
- *samplingProcedure*[9]
- *modeOfCollection*[10]
- *topicClassification*[11]

ISO Codes

For some metadata fields, ISO Codes are in use

- EQB uses ISO 3166-1 alpha 2 for *country*.
- EQB supports multilingual metadata. The metadata can be provided in any language compliant with ISO 639-1[12]. For question-level metadata, the language of the element's content should contain a combined ISO Code of language and country (optional): ISO 639-1 + ISO 3166-1.
- EQB uses ISO 8601 to describe *dataCollectionDate*, *studyVersiondate,* and *publicationDate*. The code is an internationally accepted way to represent dates and times using numbers:
  - o Date: the complete calendar date with the structure YYYY-MM-DD, e.g., 2018-03-24
  - o Month and year: the date with the structure YYYY-MM, e.g., 2018-03
  - o Year: the date with the structure YYYY, e.g., 2018

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[8] https://ddialliance.org/Specification/DDI-CV/TimeMethod_1.2.html
[9] https://ddialliance.org/Specification/DDI-CV/SamplingProcedure_1.1.html
[10] https://ddialliance.org/Specification/DDI-CV/ModeOfCollection_3.0.html
[11] https://vocabularies.cessda.eu/vocabulary/TopicClassification?v=3.0
[12] https://www.iso.org/iso-639-language-codes.html

Columns in the EQB metadata schema

Table 1 contains a detailed description of the EQB metadata schema. In the first column (*No.*) are the sequence numbers. The numbers describe the hierarchical order of the elements and show which child element (e.g., 1.1 question item and 1.2 question grid) belongs to its upper parent element (e.g., 1.questions). The property names (*EQB (identifying) element name*) (written in small letters without blanks) are together with the sequence numbers the technically identifying metadata names in the model (a unique key). The third column provides the label of the element in the EQB User Interface (*UI label*). In some cases, the elements are not displayed in the UI. The reasons are:

- The element is a wrapper element, which was included in the schema to structure the elements in a thematic order: *not displayed (wrapper element)*.
- The element is only a piece of internal information to identify or reference elements: *not displayed (internal info)*.
- The element will be provided for EQB v2.0 because the element was labeled as low priority, or it is a new element from CMM v2.0 and has not been included in the UI yet: *to be displayed in EQB v2.0*.

Column four (*Definition*) includes definitions of the element.

The occurrence (*Occ*) in column five indicates cardinality/quantity constraints for the properties as follows:

- 0-n = optional and repeatable
- 0-1 = optional, but not repeatable
- 1-n = required and repeatable
- 1-2 = required and repeatable twice
- 1 = required, but not repeatable

Column six (*lang*) marks every multilingual element. "CV/ISO Code/default value" in column seven describes which CV/standard/ISO or the default value is used for the element. The last column provides information on the recommended properties (*R*).

DDI 3.2 XPath examples for every metadata element of the EQB metadata schema can be found in table 2.

Appendix

The EQB Metadata Schema

Table 1: The EQB Metadata Schema v1.0

No.	EQB (identifying) element name	UI label	Definition	Occ[13]	lang	CV/ ISO Code/default value	R[14]
Information on Questions							
1	**questions**	*not displayed (wrapper element)*	A question in EQB can be a single question item or a question grid.	1-n			
1.1*[15]	**questionItem**	*not displayed (wrapper element)*	A question item is a term for a single question that contains a version, ID, name, text, statement, interviewer instructions, and number.	0-n			
1.1.1	questionItemDDIIdentifier	*not displayed (internal info)*	Identifier of question according to DDI 3.2 structure. Either DDI URN or triple Agency, ID, Version need to be provided as information.	1-2			
1.1.2	questionItemVersion	Version	A version number of the question item.	0-1			
1.1.3	questionItemID	Question ID	An identifier provided by the user for the question	1-n			
1.1.3.1	questionItemIDType	*not displayed (internal info)*	Type of UserID for question (for DDI3.2)	1		Default: QuestionID	
1.1.4	questionItemName	Name	A label of a question item the metadata refers to for display.	0-n	yes		
1.1.4.1	questionItemNameCon	*not displayed (internal info)*	Identify the context related to the question item name, in this case to separate between number and label for DDI 3.2	1		examples: title-english title-originallang	

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[13] indicates cardinality/quantity constraints for the properties as follows: 0-n = optional and repeatable, 0-1 = optional, but not repeatable, 1-n = required and repeatable, 1-2 = required and repeatable twice, 1 = required, but not repeatable

[14] recommended properties

[15] a selection must be made: either a QuestionItem or a QuestionGrid must be specified. So the * means "Select either one of the following".

No.	Element	Display	Description	Card.	Transl.	Type / Note		Req.
1.1.4.2	questionItemNameLang	*not displayed (internal info)*	The language of the content of the element containing a combined ISO Code of language and country (optional).	1		ISO 639-1 + ISO 3166-1		
1.1.4.3	questionItemNameTrans	*not displayed (internal info)*	Is the content of the element translated?	0-1		true, false		R
1.1.5	questionItemText	Question text	A literal question item text.	1-n	yes			
1.1.5.1	questionItemTextLang	*not displayed (internal info)*	The language of the content of the element containing a combined ISO Code of language and country (optional).	1		ISO 639-1 +ISO 3166-1		
1.1.5.2	questionItemTextTrans	*not displayed (internal info)*	Is the content of the element translated?	0-1		true, false		R
1.1.6	questionItemStatement	Pre-/Post-question text	A prequestion and/or postquestion and other statements as part of the question item text.	0-n	yes			
1.1.6.1	questionItemStatementLang	*not displayed as element*	The language of the content of the element containing a combined ISO Code of language and country (optional).	1		ISO 639-1 + ISO 3166-1		
1.1.6.2	questionItemStatementTrans	*not displayed as element*	Is the content of the element translated?	0-1		true, false		R
1.1.7	questionItemInterviewerinstruction	Interviewer instruction	An instruction for the interviewer.	0-n	yes			R
1.1.7.1	questionItemInterviewerinstructionLang	*not displayed as element*	The language of the content of the element containing a combined ISO Code of language and country (optional)	1		ISO 639-1 + ISO 3166-1		
1.1.7.2	questionItemInterviewerinstructionTrans	*not displayed as element*	Is the content of the element translated?	0-1		true, false		R
1.1.8	questionItemNumber	Question number	A number of the question item the metadata refers to within the associated instrument.	0-n	yes			
1.1.8.1	questionItemNumberCont	*not displayed (internal info)*	Number of the question item within the associated instrument to separate label and number for DDI 3.2	1		Default: questionNumber		
1.1.8.2	questionItemNumberLang	*not displayed (internal info)*	The language of the content of the element containing a combined ISO Code of language and country (optional)	1		ISO 639-1 + ISO 3166-1		
1.1.8.3	questionItemNumberTrans	*not displayed (internal info)*	Is the content of the element translated?	0-1		true, false		R
1.1.9	referenceItemToResponse	*not displayed (internal info)*	A reference of a specific question item to an existing response domain type (e.g., CodeDomain, NumericDomain or TextDomain) using the DDI reference structure (Agency, ID, Version).	0-2				R
1.1.9.1	referenceItemToResponseType	*not displayed (internal info)*	States the type of object being referenced based on a persistent list of valid DDI object types.	1		e.g. ManagedNumeric-Representation, ManagedScale-Representation, ManagedText-Representation		

1.1.10	referenceItemToConcept	*not displayed (internal info)*	A reference of a specific question item to an existing concept or keyword that is related to the question using the DDI reference structure (Agency, ID, Version).	0-2			R
1.1.10.1	referenceOfQuestionItemToConceptType	*not displayed (internal info)*	States the type of object being referenced based on a persistent list of valid DDI object types.	1		TypeOfObject is Concept	
1.1.11	**showcard**	*not displayed (wrapper element)*	Within the context of survey research, a showcard or showsheet is a visual aid used predominantly during in-person surveys. It is a card, a piece of paper, or an electronic screen containing answer categories to a question, from which the respondent chooses the answer to the survey question.	0-n			
1.1.11.1	showcardFileName	*to be displayed in EQB v2.0*	A file name of the showcard.	1	yes		
1.1.11.1.1	showcardFileNameLang	*not displayed (internal info)*	The language of the content of the element.	1		ISO 639-1 + ISO 3166-1	
1.1.11.1.2	showcardFileNameTrans	*not displayed (internal info)*	Is the content of the element translated?	0-1		true, false	R
1.1.12	showcardURL	*to be displayed in EQB v2.0*	A link to the showcard.	0-1			
1.2*	**questiongrid**	*not displayed (wrapper element)*	A question grid is a term for a matrix or ranking scale question that contains an ID, number, name, text, statement and interviewer instructions.	0-n			
1.2.1	questiongridDDIIdentifier	*not displayed (internal info)*	Identifier of question according to DDI 3.2 structure. Either DDI URN or triple Agency, ID, Version need to be provided as information.	1-2			
1.2.2	questionGridVersion	Version	A version number of the question grid.	0-1			
1.2.3	questionGridID	Question ID	An identifier for a question grid the metadata refer to.	1-n			
1.2.3.1	questionGridIDType	*not displayed (internal info)*	Type of UserID for question grid ID (for DDI3.2)	1		QuestionID	
1.2.4	questionGridName	Name	A label of a question grid the metadata refer to for display.	0-n	yes		
1.2.4.1	questionGridNameCont	*not displayed (internal info)*	Identify the context related to the question grid name, in this case to separate between Question Number and Label for DDI 3.2.	1		examples: title-english	
1.2.4.2	questionGridNameLang	*not displayed (internal info)*	The language of the content of the element containing a combined ISO Code of language and country (optional).	1		ISO 639-1 + ISO 3166-1	
1.2.4.3	questionGridNameTrans	*not displayed (internal info)*	Is the content of the element translated?	0-1		true, false	R
1.2.5	questionGridText	Question text	A literal question grid text.	1-n	yes		
1.2.5.1	questionGridTextLang	*not displayed (internal info)*	The language of the content of the element containing a combined ISO Code of language and country (optional).	1		ISO 639-1 + ISO 3166-1	
1.2.5.2	questionGridTextTrans	*not displayed (internal info)*	Is the content of the element translated?	0-1		true, false	R

ID	Name	Display	Description	Card.		Values	R
1.2.6	questionGridStatement	Pre-/Post-question text	A prequestion and/or postquestion and other statements as part of the question grid text.	0-n	yes		
1.2.6.1	questionGridStatementLang	not displayed (internal info)	The language of the content of the element containing a combined ISO Code of language and country (optional).	1		ISO 639-1 + ISO 3166-1	
1.2.6.2	questionGridStatementTrans	not displayed (internal info)	Is the content of the element translated?	0-1		true, false	R
1.2.7	questionGridInterviewerinstruction	Interviewer instruction	An instruction for the interviewer.	0-n	yes		
1.2.7.1	questionGridInterviewerinstructionLang	not displayed (internal info)	The language of the content of the element containing a combined ISO Code of language and country (optional).	1		ISO 639-1 + ISO 3166-1	
1.2.7.2	questionGridInterviewerinstructionTrans	not displayed (internal info)	Is the content of the element translated?	0-1		true, false	R
1.2.8	questionGridNumber	Question number	A number of the question grid the metadata refers to within the associated instrument.	0-n	yes		
1.2.8.1	questionGridNumberCont	not displayed (internal info)	Number of the question grid within the associated instrument to separate label and number for DDI 3.2.	1		questionNumber	
1.2.8.2	questionGridNumberLang	not displayed (internal info)	The language of the content of the element containing a combined ISO Code of language and country (optional).	1		ISO 639-1 + ISO 3166-1	
1.2.8.3	questionGridNumberTrans	not displayed (internal info)	Is the content of the element translated?	0-1		true, false	R
1.2.9	referenceGridToConcept	not displayed (internal info)	A reference of a specific question grid to a concept or keyword that is related to the question.	0-n			
1.2.9.1	referenceGridToConceptType	not displayed (internal info)	States the type of object being referenced based on a persistent list of valid DDI object types.	1		TypeOfObject is Concept	
1.2.10	**gridDimension**	not displayed (wrapper element)	Holds subquestion number and subquestion text	0-n			R
1.2.10.1	subQuestionNumber	Subquestion number	A value for the subquestion of a question grid.	0-n	yes		
1.2.10.1.1	subQuestionNumberLang	not displayed (internal info)	The language of the content of the element containing a combined ISO Code of language and country (optional).	1		ISO 639-1 + ISO 3166-1	
1.2.10.1.2	subQuestionNumberTrans	not displayed (internal info)	Is the content of the element translated?	0-1		true, false	R
1.2.10.2	subQuestionText	Subquestion text	A statement and/or question which is part of the grid and comes after the preceding question grid text.	1-n	yes		
1.2.10.2.1	subQuestionTextLang	not displayed (internal info)	The language of the content of the element containing a combined ISO Code of language and country (optional).	1		ISO 639-1 + ISO 3166-1	
1.2.10.2.2	subQuestionTextTrans	not displayed (internal info)	Is the content of the element translated?	0-1		true, false	R
1.2.10.3	**responseDomainForGrid**	not displayed (wrapper element)	A domain used for capturing the response to a question.	1-n			
1.2.10.3.1	referenceGridToResponse	not displayed (internal info)	A response domain used by question grid item included by reference. Can be replaced by several domains, e.g. CodeDomain, NumericDomain or TextDomain.	0-2			R

						possible values for the type of object are: ManagedNumericRepresentation ManagedScaleRepresentation ManagedTextRepresentation
1.2.10.3.1.1	referenceGridToResponseType	not displayed (internal info)	States the type of object being referenced based on a persistent list of valid DDI object types.	1		
1.2.10.3.2	outParameter	not displayed (internal info)	Defines an out parameter that can be used by variable to connect it with.	0-1		
1.2.10.3.3	gridAttachment	not displayed (internal info)	Defines the grid dimension and the subquestion for the response value.	1		
1.2.11	**showcard**	not displayed (wrapper element)	A card, a piece of paper, or an electronic screen containing answer categories to a question, from which the respondent chooses the answer to the survey question.	0-1		
1.2.11.1	showcardFileName	to be displayed in EQB v2.0	A file name of the showcard.	1	yes	
1.2.11.1.1	showcardFileNameLang	not displayed (internal info)	The language of the content of the element containing a combined ISO Code of language and country (optional).	1		ISO 639-1 + ISO 3166-1
1.2.11.1.2	showcardFileNameTrans	not displayed (internal info)	Is the content of the element translated?	0-1		true, false — R
1.2.11.2	showcardURL	to be displayed in EQB v2.0	A link to the showcard.	0-1		
1.3	**accessInformation**	not displayed (wrapper element)	Information on access regulations and conditions for question-level metadata.	0-1		R
1.3.1	metadataAccessQuestion	to be displayed in EQB v2.0	Freetext description on the metadata access conditions for the provided metadata for question-related information only. Examples of such conditions are the copyright status, usage regulations based on legislation, a license, or other agreement concerning the metadata usage.	0-1	yes	R
1.3.1.1	metadataAccessQuestionLang	not displayed (internal info)	The language of the content of the element	1		ISO 639-1
Information on Responses						
2	**responseDomainTypes**	not displayed (wrapper element)	A domain used for capturing the response to a question.	0-n		R
2.1	**codeDomain**	not displayed (wrapper element)	A response domain is capturing a coded response (where both codes and their related category value are displayed) for a question item or variable.	0-1		

2.1.1	codelist	*not displayed (wrapper element)*	A structure used to associate a list of code values to specified categories.	1			
2.1.1.1	codelistDDIIdentifier	*not displayed (internal info)*	An identifier of the codelist the metadata refer to according to DDI3.2 structure. Either DDI URN or triple Agency, ID, Version need to be provided as information.	1-2			
2.1.1.2	codelistID	*not displayed (internal info)*	An identifier of the codelist the metadata refers to.	1-n			
2.1.1.3	codelistName	*to be displayed in EQB v2.0*	A name of the codelist.	0-1	yes		
2.1.1.3.1	codelistNameLang	*not displayed (internal info)*	The language of the content of the element	1		ISO 639-1 + ISO 3166-1	
2.1.1.4	codelistLabel	*to be displayed in EQB v2.0*	A label of the codelist.	0-1	yes		
2.1.1.4.1	codelistLabelLang	*not displayed (internal info)*	The language of the content of the element	1		ISO 639-1 + ISO 3166-1	
2.1.1.5	codelistDescription	*to be displayed in EQB v2.0*	A description of the codelist.	0-1	yes		
2.1.1.5.1	codelistDescriptionLang	*not displayed (internal info)*	The language of the content of the element.	1		ISO 639-1 + ISO 3166-1	
2.1.1.2	codelistResponseCardinality	*to be displayed in EQB v2.0*	It indicates the minimum and the maximum number of possible answers within the codelist.	0-1			
2.1.1.3	answerCode	Answer code	A structure that links a unique value of a code to a specified category.	1-n			
2.1.1.4.1	answerCategory	Response category	A description of a particular category or response.	1-n	yes		
2.1.1.4.1.1	answerCategoryLang	*not displayed (internal info)*	The language of the content of the element.	1		ISO 639-1 + ISO 3166-1	
2.1.1.4.1.2	answerCategoryTrans	*not displayed (internal info)*	Is the content of the element translated?	0-1			
2.1.1.4.2	answerMissingValue	Answer code/Response category	A value for missing data. If the category is describing a classification of "missing data" set the value of isMissing to "true".	0-1			
2.1.1.5	referenceCodeToCategory	*not displayed (internal info)*	A reference of an answer code to an answer category using the DDI reference structure (Agency, ID, Version).	1-2			R
2.1.1.6	referenceCodeToCategoryType	*not displayed (internal info)*	States the type of object being referenced based on a persistent list of valid DDI object types.	1		TypeOfObject is Category	
2.2	**numericDomain**	*not displayed (wrapper element)*	A response domain capturing a numeric response for a question item.	0-1			
2.2.1	numericDomainName	*to be displayed in EQB v2.0*	A name of a numeric domain.	0-1	yes		

2.2.1	numericDomainNameLang	*not displayed (internal info)*	The language of the content of the element.	1		ISO 639-1 + ISO 3166-1
2.2.2	numericDomainLabel	*to be displayed in EQB v2.0*	A label of a numeric domain.	0-1	yes	
2.2.2	numericDomainLabelLang	*not displayed (internal info)*	The language of the content of the element.	1		ISO 639-1 + ISO 3166-1
2.2.3	numericDomainDescription	*to be displayed in EQB v2.0*	A description of a numeric domain.	0-1	yes	
2.2.3	numericDomainDescriptionLang	*not displayed (internal info)*	The language of the content of the element.	1		ISO 639-1 + ISO 3166-1
2.2.4	numericDomainRangeLow	*to be displayed in EQB v2.0*	Structures a numeric range. Low value is designated	0-1		
2.2.5	numericDomainRangeHigh	*to be displayed in EQB v2.0*	Structures a numeric range. High value is designated	0-1		
2.3	**textDomain**	*not displayed (wrapper element)*	A response domain capturing a textual response.	0-1		
2.3.1	textDomainName	*to be displayed in EQB v2.0*	A name of a text domain.	0-1	yes	
2.3.1.1	textDomainNameLang	*not displayed (internal info)*	The language of the content of the element.	1		ISO 639-1 + ISO 3166-1
2.3.2	textDomainLabel	*to be displayed in EQB v2.0*	A label of a text domain.	0-1	yes	
2.3.2.1	textDomainLabelLang	*not displayed as element*	The language of the content of the element.	1		ISO 639-1 + ISO 3166-1
2.3.3	textDomainDescription	*to be displayed in EQB v2.0*	A description of a text domain.	0-1	yes	
2.3.3.1	textDomainDescriptionLang	*not displayed (internal info)*	The language of the content of the element.	1		ISO 639-1 + ISO 3166-1
2.3.4	textDomainMinLength	*to be displayed in EQB v2.0*	Length of the text: Min length	0-1		
Information on Concepts						
3	**concept**	*not displayed (wrapper element)*	A concept or keyword describing the content of a question.	0-n		
3.1	conceptDDIIdentifier	*not displayed (internal info)*	ID of the concept the metadata refer to. Either DDI URN or triple Agency, ID, Version need to be provided as information.	1-2		
3.2	conceptName	Concepts	A name of the concept.	0-1	yes	
3.2.1	conceptNameLang	*not displayed (internal info)*	The language of the content of the element.	1		ISO 639-1
3.3	conceptLabel	Concepts	A label of the concept.	0-1	yes	
3.3.1	conceptLabelLang	*not displayed (internal info)*	The language of the content of the element.	1		ISO 639-1
3.4	conceptDescription	Concept Descriptions	A description of the concept.	0-1	yes	
3.4.1	conceptDescriptionLang	*not displayed (internal info)*	The language of the content of the element.	1		ISO 639-1
Information on Datasets						
4	**dataset**	*not displayed (wrapper element)*	A collection of data, where every column of the statistical data matrix represents a particular	0-n		

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No.	Element	Display	Description	Card.	Transl.	Note	
			variable, and each row corresponds to a given member of the data set in question.				
4.1	datasetDDIIdentifier	*not displayed (internal info)*	Identifier of the Dataset according to DDI 3.2 structure. Either DDI URN or triple Agency, ID, Version need to be provided as information.	1-2			
4.2	datasetPID	*to be displayed in EQB v2.0*	An identifier that captures information on the type and value of a PID.	0-n			
4.2.1	datasetPIDType	*not displayed (internal info)*	The identification of the agency which assigns and manages the identifier, i.e., ISBN, ISSN, DOI, etc.	1			
4.3	datasetFileName	*to be displayed in EQB v2.0*	A file name of the data set.	1-n	yes		
4.3.1	datasetFileNameLang	*not displayed (internal info)*	The language of the content of the element-Language of the file name	1		ISO 639-1	
4.4	referenceDatasetToStudy	*not displayed (internal info)*	A reference from dataset to a specific study using the DDI reference structure (Agency, ID, Version).	1			
4.5	**variable**	*not displayed (wrapper element)*	A variable represents a measurable quantity (quantitative variable) or takes on values that are names of labels (qualitative variable).	0-n			
4.5.1	variableDDIIdentifier	*not displayed (internal info)*	Identifier of the variable according to DDI 3.2 structure. Either DDI URN or triple Agency, ID, Version need to be provided as information.	1-2			
4.5.2	variableName	Variables	A name of a variable within a dataset.	1-n	yes		
4.5.2.1	variableNameLang	*not displayed (internal info)*	The language of the content of the element - meaning: language of the variable names/labels and the metadata within the dataset	1		ISO 639-1	
4.5.2.2	variableNameTrans	*not displayed (internal info)*	Is the content of the element translated?	0-1		true, false	
4.5.3	variableLabel	Variables	A label of a variable for display.	0-n	yes		
4.5.3.1	variableLabelLang	*not displayed (internal info)*	The language of the content of the element.	1		ISO 639-1	
4.5.3.2	variableLabelTrans	*not displayed (internal info)*	Is the content of the element translated?	0-1		true, false	R
4.5.4	variableDescription	Variables	An additional description of the variable or the file content.	0-n	yes		
4.5.4.1	variableDescriptionLang	*not displayed (internal info)*	The language of the content of the element.	1		ISO 639-1	
4.5.4.2	variableDescriptionTrans	*not displayed (internal info)*	Is the content of the element translated?	0-1		true, false	R
4.5.5	variableType	Variables	A variable can have different types according to the ways they can be studied, measured, and presented.	0-1		"variableType" = numeric	R
4.5.6	referenceVariableToCodelist	*not displayed (internal info)*	A reference of a variable to a codelist using the DDI reference structure (Agency, ID, Version).	0-2		TypeOfObject is CodeList	R

No.	Element	Display	Description	Card.		Notes	
4.5.7	referenceVariableToQuestion	*not displayed (internal info)*	A reference of a variable to a question using the DDI reference structure (Agency, ID, Version).	0-n			
4.5.7.1	referenceOfVariableToQuestionType	*not displayed (internal info)*	States the type of object being referenced based on a persistent list of valid DDI object types.	1		TypeOfObject is QuestionItem	
Information on Intruments							
5	**instrument**	*not displayed (wrapper element)*	A tool to obtain data from respondents. For most social and behavioral surveys, the instrument involves a questionnaire with questions and response options.	0-n			
5.1	instrumentDDIidentifier	*not displayed (internal info)*	Identifier of the Instrument according to DDI 3.2 structure. Either DDI URN or triple Agency, ID, Version need to be provided as information.	1-2			
5.2	instrumentName	*to be displayed in EQB v2.0*	A name of the instrument.	1-n	yes		
5.2.1	instrumentNameLang	*not displayed (internal info)*	The language of the content of the element.	1		ISO 639-1	
5.2.2	instrumentNameTrans	*not displayed (internal info)*	Is the content of the element translated?	0-1		true, false	R
5.3	instrumentLanguage	Interview Language	A language for the instrument that is being used in the study containing a combined ISO Code of language and country (optional)	1	yes	ISO 639-1 + ISO 3166-1	
5.4	referenceInstrumentToQuestion	*not displayed (internal info)*	A reference of the instrument to a question using the DDI reference structure (ID, Version, Agency).	1-2			
5.5	referenceInstrumentToQuestionType	*not displayed (internal info)*	States the type of object being referenced based on a persistent list of valid DDI object types.	1		Default: QuestionItem	
Information on Study							
6	**studyInformation**	*not displayed (wrapper element)*	Detailed information on a study that is related to a question.	1			
6.1	Study DDI Identifier	*not displayed (internal info)*	Identifier of the study according to DDI 3.2 structure. Either DDI URN or triple Agency, ID, Version need to be provided as information.	1-2			
6.2	studyPID	Study PID	A value of a persistent identifier for the study.	1-n			
6.2.1	studyPIDType	*to be displayed in EQB v2.0*	The identification of the agency which assigns and manages the identifier. The following PID systems are accepted by CESSDA Tools and Services: DOI, Handle (including ePIC-handles), URN, ARK	1			
6.3	studyNumber	Study number	A unique study number of the archive.	1-n			
6.3.1	studyNumberType	*not displayed (internal info)*	Required attribute containing the local user identification system that maintains and defines the UserID.	1		Default: UniqueArchivalNumber	

6.x	Element	Label	Description	Card.		Standard	R
6.4	studyVersionNumber	Versionnumber	A number of the version (free text) that the Service Provider uses to identify this version of the study.	0-1			
6.5	studyVersiondate	Versiondate	A date of the version that the Service Provider uses to identify this version of the study.	0-1		ISO 8601	
6.6	studyTitle	Title	A title or name for the study.	1-n	yes		
6.6.1	studyTitleLang	not displayed (internal info)	The language of the content of the element.	1		ISO 639-1	R
6.6.2	studyTitleTrans	not displayed (internal info)	Is the content of the element translated?	0-1		true, false	
6.7	studyDescription	Abstract	An abstract that describes the content(s) of the study.	0-1	yes		
6.7.1	studyDescriptionLang	not displayed (internal info)	The language of the content of the element	1			
6.8	SPURL	Further information on study and data	A URL or URN (a reference to a web resource that specifies its location) linking to the study.	1-n			
6.9	CDCURL	Link to study in CESSDA Data Catalogue	A URL or URN (a reference to a web resource that specifies its location) linking to the study to a CDC page.	0-n			R
6.10	publicationDate	Publication date	Date (date-time combination (YYYY-MM-DDTHH:MM:SS), date (YYYY-MM-DD), year-month (YYYY-MM), year (YYYY)) of publication (by publisher) of the study. Extract the year if only this is needed (e.g. citation). This element refers to the date (ISO 8601) when the data of the study was or will be made publicly available. If there is an embargo on the data in effect, use the date when the embargo period ends.	1		ISO 8601	
6.11	publisherName	Publisher	A name of the institution publishing the metadata, i.e. CESSDA Service Provider providing the metadata information or the name of the actual publisher of the metadata , who is not the SPs. Only on study level.	0-n	yes		
6.11.1	publisherNameLang	not displayed (internal info)	The language of the content of the element.	1			
6.11.2	publisherNameTrans	not displayed (internal info)	Is the content of the element translated?	0-1			R
6.12	referenceStudyPerson	not displayed (internal info)	A reference of a study to a person who is a principal investigator using the DDI reference structure (ID, Version, Agency). Principal investigators are the main researchers involved in producing the data.	0-n			
6.13	referenceStudyToInstitution	not displayed (internal info)	A reference of a study to an institution that is a principal investigator using the DDI reference structure (ID, Version, Agency). Principal investigators are the main institutions involved in producing the data.	0-n			

No.	Element	Display	Description	Card.		Vocabulary	R
6.14	referenceStudyToInstrument	not displayed (internal info)	A reference of a study to an instrument using the DDI reference structure (ID, Version, Agency).	0-n			R
6.15	**timeMethod**	*not displayed (wrapper element)*	A type of time dimension of the data collection.	0-n			R
6.15.1	timeMethodControlled	not displayed (internal info)	Code value of the CV "DDI Time Method".	1			
6.15.2	timeMethodDescriptive	Time dimension	Descriptive term of the CV "DDI Time Method".	0-1	yes		R
6.15.2.1	timeMethodLang	not displayed (internal info)	The language of the content of the element.	1		ISO 639-1	
6.15.3	timeMethodName	not displayed (internal info)	The name of the vocabulary used for Time Method.	1		DDI Time Method	
6.15.4	timeMethodAgency	not displayed (internal info)	The name of the agency maintaining the vocabulary for "DDI Time Method".	0-1		DDI Alliance	
6.15.5	timeMethodURL	not displayed (internal info)	Persistent Identifier of the vocabulary for Time Method.	1			
6.16	**country**	Country	A country in which the study took place.	0-n		ISO 3166-1 alpha 2	R
6.16.1	Study Area Vocabulary	not displayed (internal info)	The name of the vocabulary used for study area	0-1			R
6.16.2	Study Area Vocabulary Agency	not displayed (internal info)	The name of the agency maintaining the vocabulary for study area	0-1			
6.16.3	Study Area Vocabulary URL	not displayed (internal info)	Persistent identifier of the vocabulary for study area	0-1			
6.17	**samplingProcedure**	*not displayed (wrapper element)*	Sampling procedure used for data collection. Controlled vocabulary includes a typology of sampling methods.	0-n			R
6.17.1	samplingProcedureControlled	not displayed (internal info)	Code value of the CV "DDI Sampling Procedure"	1			
6.17.2	samplingProcedureDescriptive	Sampling procedure	Descriptive term of the CV "DDI Sampling Procedure"	0-1	yes		R
6.17.2.1	samplingProcedureLang	not displayed (internal info)	The language of the content of the element	1		ISO 639-1	
6.17.3	samplingProcedureName	not displayed (internal info)	The name of the used vocabulary for sampling procedure.	1		DDI SamplingProcedure	
6.17.4	samplingProcedureAgency	not displayed (internal info)	The name of the agency maintaining the vocabulary for sampling procedure.	0-1		DDI Alliance	
6.17.5	samplingProcedureURL	not displayed (internal info)	Persistent identifer of the vocabulary for sampling procedure.	1			
6.18	**modeOfCollection**	*not displayed (wrapper element)*	A type of data collection - the procedure, technique, or mode of inquiry used to attain the data.	0-n			R
6.18.1	modeOfCollectionControlled	not displayed (internal info)	Code value of the CV "DDI Mode of Data Collection"	1			
6.18.2	modeOfCollectionDescriptive	Data collection mode	Descriptive term of the CV "DDI Mode of Data Collection"	0-1	yes		R
6.18.2.1	modeOfCollectionLang	not displayed (internal info)	The language of the content of the element	1		ISO 639-1	

						DDI ModeofCollection	R
6.18.3	modeOfCollectionName	not displayed (internal info)	The name of the used vocabulary for mode of data collection.	1			
6.18.4	modeOfCollectionAgency	not displayed (internal info)	The name of the agency maintaining the vocabulary for mode of data collection.	0-1		DDI Alliance	
6.18.5	modeOfCollectionURL	not displayed (internal info)	Persistent identifier of the vocabulary for mode of data collection.	1			
6.19	**dataCollectionDate**	*not displayed (wrapper element)*	A year the data was collected.	0-n			R
6.19.1	**dataCollectionStartdate**	*not displayed (wrapper element)*	A start date of the data collection (if there are multiple start dates, use the first date).	0-n		ISO 8601	
6.19.1.1	date	Data collection period	A complete calendar date with the structure YYYY-MM-DD, e.g. 2018-03-24.	0-1			
6.19.1.2	monthyear	Data collection period	A date with the structure YYYY-MM, e.g 2018-03.	0-1			
6.19.1.3	year	Data collection period	A date with the structure YYYY, e.g. 2018.	1			
6.19.2	**dataCollectionEnddate**	*not displayed (wrapper element)*	An end date of data collection (if there are multiple end dates, use the last).	0-n		ISO 8601	
6.19.2.1	date	Data collection period	A complete calendar date with the structure YYYY-MM-DD e.g. 2019-03-24.	0-1			
6.19.2.2	monthyear	Data collection period	The date with the structure YYYY-MM e.g 2019-03	0-1			
6.19.2.3	year	Data collection period	A date with the structure YYYY e.g. 2019.	1			
6.20	**topicClassification**	*not displayed (wrapper element)*	A classification to identify general topics of a study. CESSDA Topic Classification is recommended.	0-n			R
6.20.1	topicControlledDescriptive	Topics	Code value or descriptive term of the CV "CESSDA Topic Classification" or other	0-1	yes		R
6.20.1.1	topicLang	not displayed (internal info)	The language of the content of the element	1		ISO 639-1	
6.20.2	topicName	not displayed (internal info)	A name of the used classification system, e.g. "CESSDA Topic Classification"	1			
6.20.3	topicAgency	not displayed (internal info)	The name of the agency maintaining the classification, e.g., "CESSDA"	0-1			
6.20.4	topicURL	not displayed (internal info)	A persistent identifier of the classification system.	1			
6.21	**accessInformation**	*not displayed (wrapper element)*	Acces information on study-level.	1-n			
6.21.1	dataAccess	to be displayed in EQB v2.0	Freetext description of possibilities to access data.	1-n	yes		
6.21.1.1	dataAccessLang	to be displayed in EQB v2.0	The language of the content of the element.	1		ISO 639-1	
6.21.2	dataAccessCondition	to be displayed in EQB v2.0	If the preserved content is subject to any access restrictions, those must be expressed in as much detail as possible in the information package in accordance with cataloguing rules and metadata formats used. Examples of such restrictions are the	0-n	yes		

No.	Element	Description	Display	Card			
		copyright status, usage restrictions based on legislation, a license, or other agreement concerning the content usage. Should the information package contain several digital objects with different restrictions, these restrictions should be attached correctly and individually to those objects that the restrictions concern.					R
6.21.2.1	dataAccessConditionLang	The language of the content of the element.	*to be displayed in EQB v2.0*	1		ISO 639-1	
6.21.3	metadataAccessStudy	Freetext description on the metadata access conditions for the provided metadata for the study-related information only. Examples of such conditions are the copyright status, usage regulations based on legislation, a license, or other agreement concerning the metadata usage.	*to be displayed in EQB v2.0*	0-1	yes		
6.21.3.1	metadataAccessStudyLang	The language of the content of the element.	*to be displayed in EQB v2.0*	1		ISO 639-1	
Information on StudyGroup							
7	**studyGroupInformation**	Information on group(s) of studies	*not displayed (wrapper element)*	0-n			
7.1	studyGroupDDIIdentifier	Identifier of the study group according to DDI 3.2 structure. Either DDI URN or triple Agency, ID, Version need to be provided as information.	*not displayed (internal info)*	1-2			
7.2	studyGroupID	A value of a persistent identifier for the study group.	*not displayed (internal info)*	0-n			
7.2.1:	studyGroupIDType	A required attribute containing the local user identification system that maintains and defines the UserID.	*not displayed (internal info)*	1		Default: GroupID	
7.3	studyGroupTitle	A title or name for the study group.	Filter/Part of study group/series	1-n			
7.3.1	studyGroupTitleLang	The language of the content of the element	*not displayed (internal info)*	1	yes	ISO 639-1	
7.3.2	studyGroupTitleTrans	Is the content of the element translated?	*not displayed (internal info)*	0-1		true, false	R
7.4	studyGroupUrl	An URL or URN (a reference to a web resource that specifies its location) linking to the study group.	*included as hyperlink*	1-n			
7.5	referenceGroupToStudy	A reference of a study group to a study.	*not displayed (internal info)*	1-n			
7.5.1	referenceGroupToStudyType	States the type of object being referenced based on a persistent list of valid DDI object types.	*not displayed (internal info)*	1		Type of object is StudyUnit	
7.6	referenceToDocument	A reference of a study group to a document, e.g. questionnaire.	*not displayed (internal info)*	0-n			
Information on Person(s) and Institution(s)							
8	**persons**	Any kind of person that is related to the study.	*not displayed (wrapper element)*	0-n			
8.1	personDDIIdentifier	Identifier of the person (individual) according to DDI 3.2 structure. ID that can be used in references related to this	*not displayed (internal info)*	1-2			

			individual (e.g in relations). Either DDI URN or triple Agency, ID, Version need to be provided as information.		
8.2	**personName**	*not displayed (wrapper element)*	A first, middle and last name of a person.	1	
8.2.1	firstName	Publisher	The first name of a person.	1	
8.2.2	middleName	Publisher	The middle name of a person.	0-1	
8.2.3	lastName	Publisher	The last name of a person.	1	
8.3	**associatedOrga**	*not displayed (wrapper element)*	A reference to the institution a person is affiliated to.	0-n	
8.3.1	sourceObjectReference	*not displayed (internal info)*	Reference to organization that is affiliation to the person.	1-2	
8.3.1.1	sourceObjectReferenceType	*not displayed (internal info)*	States the type of object being referenced based on a persistent list of valid DDI object types.	1	TypeOfObject=In dividual
8.3.2	targetObjectRole	*not displayed (internal info)*	Identifies the target organization or individual in the relationship.	1	Affiliation
8.3.3	targetObjectReference	*not displayed (internal info)*	Reference to an existing Organization using the Reference structure.	1-2	
8.3.3.1	targetObjectReferenceType	*not displayed (internal info)*	States the type of object being referenced based on a persistent list of valid DDI object types.	1	TypeOfObject=O rganization
9	**institution**	*not displayed (wrapper element)*	Any kind of institution that is related to the study.	0-n	
9.1	institutionDDIIdentifier	*not displayed (internal info)*	Identifier of the organization according to DDI 3.2 structure. Either DDI URN or triple Agency, ID, Version need to be provided as information.	1-2	
9.2	institutionName	Publisher	A name of the organization or institution	1-n	yes
9.2.1	institutionNameLang	*not displayed (internal info)*	The language of the content of the element	1	
9.3	institutionAbbreviation	*to be displayed in EQB v2.0*	If applicable: abbreviation of the institution's name	0-1	
Information on Documentation					
10	**documentation**	*not displayed (wrapper element)*	All documents that a SP might want to add in addition (e.g. Codebook).	0-n	
10.1	documentID	ID	An identifier for the document.	0-1	
10.1.1	documentIDType	*not displayed (internal info)*	Type of ID for the document ID.	1	DocumentID
10.2	documentTitle	Title	A title for the document.	1	yes
10.2.1	documentTitleLang	*not displayed as element*	The language of the content of the element.	1	ISO 639-1
10.3	documentType	Type	Information on the type of document that is provided.	0-1	
10.4	documentURL	*displayed as hyperlink*	URL / Webaddress of the document the metadata refer to.	0-1	R
10.5	referenceStudyToDocument	*not displayed (internal reference)*	A reference of a study to a document using the DDI reference structure (ID, Version, Agency).	0-n	
Information on Metadata					

No.	EQB element name	CV/ISO Code/default value	Description			
11	**documentationMetadata**	*not displayed (wrapper element)*	Information on the study documentation description	1		
11.1	documentationCopyright	*to be displayed in EQB v2.0*	Information on the copyright of the study documentation	0-n	yes	
11.1.1	documentationCopyrightLang	*to be displayed in EQB v2.0*	The language of the content of the element	1		ISO 639-1
11.2	documentationPublisherReference	Metadata Provider	A reference to the Service Provider (person or institution) that publishes the study documentation (metadata). Difference between publisherName and referenceToMetadataProvider: publisherName is the name of the institution who published the dataset, e.g. Infratest, but the metadata will be distributed by GESIS, who is the metadata provider. So the referenceToMetadataProvider is a person or institution that published the study documentation (metadata).	1-2		
11.2.1	documentationPublisherReferenceType	*not displayed (internal reference)*	States the type of object being referenced based on a persistent list of valid DDI object types.	1		Type of object is either Individual or Organization
11.3	metadataAccessConditionAll	*to be displayed in EQB v2.0*	Freetext description on the metadata access conditions for the provided metadata if there is one access condition for both study- and question-related metadata. Examples of such conditions are the copyright status, usage regulations based on legislation, a license, or other agreement concerning the metadata usage.	0-1		R

DDI XPath Examples

Table 2: DDI XPath Examples

No.	EQB (identifying) element name	CV/ ISO Code/ default value	DDI LIFECYCLE XPATHES EXAMPLES
Information on Questions			
1	questions		ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme
1.1	**questionItem**		ddi:DDIInstance/g:ResourcePackage/dc:ControlConstructScheme/dc:Sequence with Ref to: /ddi:DDIInstance/g:ResourcePackage/dc:ControlConstructScheme/dc:QuestionConstruct with Ref to: /ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionItem

ID	Name	Value/Example	Path
1.1.1	questionItemDDIIdentifier		Either URN or triple Agency, ID, Version is mandatory in DDI3.2 URN: ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionItem/r:URN Agency, ID, Version: ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionItem/r:Agency ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionItem/r:ID
1.1.2	questionItemVersion		ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionItem/r:Version
1.1.3	questionItemID		ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionItem/r:UserID
1.1.3.1	questionItemIDType	QuestionID	ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionItem/r:UserID/@typeOfUserID="QuestionID"
1.1.4	questionItemName		ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionItem/dc:QuestionItemName/r:String
1.1.4.1	questionItemNameCon	examples: title-english title-originallang	ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionItem/dc:QuestionItemName/@context="title-english"
1.1.4.2	questionItemNameLang	ISO 639-1 + ISO 3166-1	ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionItem/dc:QuestionItemName/r:String/@xml:lang
1.1.4.3	questionItemNameTrans	true, false	ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionItem/dc:QuestionItemName/r:String/@isTranslated
1.1.5	questionItemText		ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionItem/dc:QuestionText/dc:LiteralText/dc:Text
1.1.5.1	questionItemTextLang	ISO 639-1 +ISO 3166-1	ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionItem/dc:QuestionText/dc:LiteralText/dc:Text/@xml:lang
1.1.5.2	questionItemTextTrans	true, false	ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionItem/dc:QuestionText/dc:LiteralText/dc:Text/@isTranslated
1.1.6	questionItemStatement		ddi:DDIInstance/g:ResourcePackage/dc:ControlConstructScheme/dc:StatementItem/dc:DisplayText/dc:LiteralText/dc:Text
1.1.6.1	questionItemStatementLang	ISO 639-1 ISO 3166-1	ddi:DDIInstance/g:ResourcePackage/dc:ControlConstructScheme/dc:StatementItem/dc:DisplayText/dc:LiteralText/dc:Text@xml:lang
1.1.6.2	questionItemStatementTrans	true, false	ddi:DDIInstance/g:ResourcePackage/dc:ControlConstructScheme/dc:StatementItem/dc:DisplayText/dc:LiteralText/dc:Text@isTranslated
1.1.7	questionItemInterviewerinstruction		ddi:DDIInstance/g:ResourcePackage/dc:InterviewerInstructionScheme/dc:Instruction/dc:InstructionText/dc:LiteralText/dc:Text
1.1.7.1	questionItemInterviewerinstructionLang	ISO 639-1 + ISO 3166-1	ddi:DDIInstance/g:ResourcePackage/dc:InterviewerInstructionScheme/dc:Instruction/dc:InstructionText/dc:LiteralText/dc:Text/@xml:lang
1.1.7.2	questionItemInterviewerinstructionTrans	true, false	ddi:DDIInstance/g:ResourcePackage/dc:InterviewerInstructionScheme/dc:Instruction/dc:InstructionText/dc:LiteralText/dc:Text/@isTranslated
1.1.8	questionItemNumber		ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionItem/dc:QuestionItemName/r:String
1.1.8.1	questionItemNumberCont	questionNumber	ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionItem/dc:QuestionItemName/@context ="questionNumber"

1.1.8.2	questionItemNumberLang	ISO 639-1 + ISO 3166-1	ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionItem/dc:QuestionItemName/r:String@xml:lang
1.1.8.3	questionItemNumberTrans	true, false	ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionItem/dc:QuestionItemName/r:String@isTranslated
1.1.9	referenceItemToResponse		ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionItem/dc:ResponseDomainReference [replace dc:ResponseDomainReference with the wanted reference type]. Example ScaleDomain: DDIInstance/g:ResourcePackage/d:QuestionScheme/d:QuestionItem/d:ScaleDomainReference/r:TypeOfObject" defaultValue="ManagedScaleRepresentation" fixedValue="true" (with ID of referenced item)
1.1.9.1	referenceItemToResponseType	e.g. ManagedNumericRepresentation, ManagedScale-Representation, ManagedText-Representation	DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionItem/dc:ResponseDomainReference/r:TypeOfObject [put the wanted object type as a value for this element]
1.1.10	referenceItemToConcept		Either URN or triple Agency, ID, Version and the type of referenced object are mandatory in DDI3.2 URN:ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionItem/r:ConceptReference/r:URN Agency, ID, Version: ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionItem/r:ConceptReference/r:Agency ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionItem/r:ConceptReference/r:ID ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionItem/r:ConceptReference/r:Version
1.1.10.1	referenceOfQuestionItemToConceptType	TypeOfObject is Concept	ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionItem/r:ConceptReference/r:TypeOfObject
1.1.11	**showcard**		ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionItem/dc:ExternalAid
1.1.11.1	showcardFileName		ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionItem/dc:ExternalAid/r:Description/r:Content
1.1.11.1.1	showcardFileNameLang	ISO 639-1 + ISO 3166-1	ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionItem/dc:ExternalAid@xml:lang
1.1.11.1.2	showcardFileNameTrans	true, false	ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionItem/dc:ExternalAid@isTranslated
1.1.12	showcardURL		ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionItem/dc:ExternalAid/r:ExternalURLReference
1.2*	**questiongrid**		ddi:DDIInstance/g:ResourcePackage/dc:ControlConstructScheme/dc:Sequence with Ref to: /ddi:DDIInstance/g:ResourcePackage/dc:ControlConstructScheme/dc:QuestionConstruct with Ref to: /ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionGrid
1.2.1	questiongridDDIIdentifier		Either URN or triple Agency, ID, Version is mandatory in DDI3.2 URN: ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionGrid/r:URN

No.	Name	Value	Path
1.2.2	questionGridVersion		ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionGrid/r:Version
1.2.3	questionGridID		Agency, ID, Version: ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionGrid/r:Agency ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionGrid/r:ID ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionGrid/r:Version
1.2.3.1	questionGridIDType	QuestionID	ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionGrid/r:UserID/@typeOfUserID="QuestionID"
1.2.4	questionGridName		ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionGrid/dc:QuestionGridName/r:String
1.2.4.1	questionGridNameCont	examples: title-english	ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionGrid/dc:QuestionGridName/@context="title-english"
1.2.4.2	questionGridNameLang	ISO 639-1 + ISO 3166-1	ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionGrid/dc:QuestionGridName/r:String/@xml:lang
1.2.4.3	questionGridNameTrans	true, false	ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionGrid/dc:QuestionGridName/r:String/@isTranslated
1.2.5	questionGridText		ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionGrid/dc:QuestionText/dc:LiteralText/dc:Text
1.2.5.1	questionGridTextLang	ISO 639-1 + ISO 3166-1	ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionGrid/dc:QuestionText/dc:LiteralText/dc:Text/@xml:lang
1.2.5.2	questionGridTextTrans	true, false	ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionGrid/dc:QuestionText/dc:LiteralText/dc:Text/@isTranslated
1.2.6	questionGridStatement		ddi:DDIInstance/g:ResourcePackage/dc:ControlConstructScheme/dc:StatementItem/dc:DisplayText/dc:LiteralText/dc:Text
1.2.6.1	questionGridStatementLang	ISO 639-1 + ISO 3166-1	ddi:DDIInstance/g:ResourcePackage/dc:ControlConstructScheme/dc:StatementItem/dc:DisplayText/dc:LiteralText/dc:Text/@xml:lang
1.2.6.2	questionGridStatementTrans	true, false	ddi:DDIInstance/g:ResourcePackage/dc:ControlConstructScheme/dc:StatementItem/dc:DisplayText/dc:LiteralText/dc:Text/@isTranslated
1.2.7	questionGridInterviewerinstruction		ddi:DDIInstance/g:ResourcePackage/dc:InterviewerInstructionScheme/dc:Instruction/dc:InstructionText/dc:LiteralText/dc:Text
1.2.7.1	questionGridInterviewerinstructionLang	ISO 639-1 + ISO 3166-1	ddi:DDIInstance/g:ResourcePackage/dc:InterviewerInstructionScheme/dc:Instruction/dc:InstructionText/dc:LiteralText/dc:Text@xml:lang
1.2.7.2	questionGridInterviewerinstructionTrans	true, false	ddi:DDIInstance/g:ResourcePackage/dc:InterviewerInstructionScheme/dc:Instruction/dc:InstructionText/dc:LiteralText/dc:Text@isTranslated
1.2.8	questionGridNumber	questionNumber	ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionGrid/dc:QuestionGridName/r:String
1.2.8.1	questionGridNumberCont		ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionGrid/dc:QuestionGridName/@context
1.2.8.2	questionGridNumberLang	ISO 639-1 + ISO 3166-1	ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionGrid/dc:QuestionGridName/r:String@xml:lang
1.2.8.3	questionGridNumberTrans	true, false	ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionGrid/dc:QuestionGridName/r:String@isTranslated
1.2.9	referenceGridToConcept		Either URN or triple Agency, ID, Version and the type of referenced object are mandatory in DDI3.2 URN: ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionGrid/r:ConceptReference/r:URN

No.	Element	Type / Values	XPath / Description
			ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionGrid/r:ConceptReference/r:TypeOfObject
1.2.9.1	referenceGridToConceptType	TypeOfObject is Concept	Agency, ID, Version: ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionGrid/r:ConceptReference/r:Agency ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionGrid/r:ConceptReference/r:ID ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionGrid/r:ConceptReference/r:Version
1.2.10	**gridDimension**		ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionGrid/dc:GridDimension/dc:CodeDomain/r:CodeListReference
1.2.10.1	subQuestionNumber		ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionGrid/dc:GridDimension/dc:CodeDomain/r:Description/r:Content
1.2.10.1.1	subQuestionNumberLang	ISO 639-1 + ISO 3166-1	ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionGrid/dc:GridDimension/dc:CodeDomain/r:Description/r:Content/@xml:lang
1.2.10.1.2	subQuestionNumberTrans	true, false	ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionGrid/dc:GridDimension/dc:CodeDomain/r:Description/r:Content/@istranslated
1.2.10.2	subQuestionText		ddi:DDIInstance/g:ResourcePackage/l:CategoryScheme/l:Category/l:CategoryName/r:String
1.2.10.2.1	subQuestionTextLang	ISO 639-1 + ISO 3166-1	ddi:DDIInstance/g:ResourcePackage/l:CategoryScheme/l:Category/l:CategoryName/r:String@xml:lang
1.2.10.2.2	subQuestionTextTrans	true, false	ddi:DDIInstance/g:ResourcePackage/l:CategoryScheme/l:Category/l:CategoryName/r:String@isTranslated
1.2.10.3	**responseDomainForGrid**		ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionGrid/dc:ResponseDomainReference
1.2.10.3.1	referenceGridToResponse	possible values for the type of object are: ManagedNumericRepresentation	Either URN or triple Agency, ID, Version and the type of referenced object are mandatory in DDI3.2 URN: ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionGrid/dc:ResponseDomainReference with the wanted reference type]/r:URN Agency, ID, Version: ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionGrid/dc:ResponseDomainReference [replace dc:ResponseDomainReference with the wanted reference type]/r:Agency, ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionGrid/dc:ResponseDomainReference with the wanted reference type]/r:ID, ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionGrid/dc:ResponseDomainReference [replace dc:ResponseDomainReference with the wanted reference type]/r:Version Example ScaleDomain: DDIInstance/g:ResourcePackage/d:QuestionScheme/d:QuestionGrid/d:ScaleDomainReference/r:TypeOfObject" defaultValue="ManagedScaleRepresentation" fixedValue="true" (with ID of referenced item)
1.2.10.3.1.1	referenceGridToResponseType		ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionGrid/dc:ResponseDomainReference/r:TypeOfObject [put the wanted object type as a value for this element]

		ManagedScaleRepresentation	ManagedTextRepresentation	
1.2.10.3.2	outParameter			Example: ddi:DDIInstance/g:ResourcePackage/d:QuestionScheme/d:QuestionGrid/d:StructuredMixedGridResponseDomain/d:GridResponseDomain/d:CodeDomain/r:OutParameter This can be used at the Variable: /ddi:DDIInstance/g:ResourcePackage/l:VariableScheme/l:Variable/r:SourceParameterReference
1.2.10.3.3	gridAttachment			ddi:DDIInstance/g:ResourcePackage/d:QuestionScheme/d:QuestionGrid/d:StructuredMixedGridResponseDomain/d:GridResponseDomain/d:GridAttachment/d:CellCoordinatesAsDefined/d:SelectDimension/@rank + @specificValue
1.2.11	**showcard**			
1.2.11.1	showcardFileName			ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionGrid/dc:ExternalAid
1.2.11.1.1	showcardFileNameLang	ISO 639-1 +	ISO 3166-1	ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionGrid/dc:ExternalAid/r:Description/r:Content
1.2.11.1.1				ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionGrid/dc:ExternalAid@xml:lang
1.2.11.1.2	showcardFileNameTrans		true, false	ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionGrid/dc:ExternalAid@isTranslated
1.2.11.2	showcardURL			ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionGrid/dc:ExternalAid/r:ExternalURLReference
1.3	**accessInformation**			
1.3.1	metadataAccessQuestion			ddi:DDIInstance/s:StudyUnit/a:Archive/a:ArchiveSpecific/a:Collection/a:Item/a:Access/a:AccessConditions/r:Content
1.3.1.1	metadataAccessQuestionLang	ISO 639-1		ddi:DDIInstance/s:StudyUnit/a:Archive/a:ArchiveSpecific/a:Collection/a:Item/a:Access/a:AccessConditions/r:Content@xml:lang
Information on Responses				
2	**responseDomainTypes**			
2.1	**codeDomain**			DDIInstance/g:ResourcePackage/d:QuestionScheme/d:QuestionItem/d:CodeDomain
2.1.1	**codelist**			DDIInstance/g:ResourcePackage/l:CodeListScheme/l:CodeList
				Either URN or triple Agency, ID, Version and the type of referenced object are mandatory in DDI3.2 URN: DDIInstance/g:ResourcePackage/l:CodeListScheme/l:CodeList/r:URN Agency, ID, Version:: DDIInstance/g:ResourcePackage/l:CodeListScheme/l:CodeList/r:ID,
2.1.1.1	codelistDDIIdentifier			DDIInstance/g:ResourcePackage/l:CodeListScheme/l:CodeList/r:Agency DDIInstance/g:ResourcePackage/l:CodeListScheme/l:CodeList/r:Version
2.1.1.2	codelistID			DDIInstance/g:ResourcePackage/l:CodeListScheme/l:CodeList/r:UserID
2.1.1.3	codelistName			DDIInstance/g:ResourcePackage/l:CodeListScheme/l:CodeList/l:CodeListName/r:String
2.1.1.3.1	codelistNameLang	ISO 639-1 +	ISO 3166-1	DDIInstance/g:ResourcePackage/l:CodeListScheme/l:CodeList/l:CodeListName/r:String@xml:lang
2.1.1.4	codelistLabel			DDIInstance/g:ResourcePackage/l:CodeListScheme/l:CodeList/l:Label/r:Content

2.1.1.4.1	codelistLabelLang	ISO 639-1 + ISO 3166-1	DDIInstance/g:ResourcePackage/l:CodeListScheme/l:CodeList/r:Label/r:Content@xml:lang
2.1.1.5	codelistDescription		DDIInstance/g:ResourcePackage/l:CodeListScheme/l:CodeList/r:Description/r:Content
2.1.1.5.1	codelistDescriptionLang	ISO 639-1 + ISO 3166-1	DDIInstance/g:ResourcePackage/l:CodeListScheme/l:CodeList/r:Description/r:Content@xml:lang
2.1.1.2	codelistResponseCardinality		DDIInstance/g:ResourcePackage/l:CodeListScheme/d:QuestionItem/d:CodeDomain/r:ResponseCardinality
2.1.1.3	answerCode		DDIInstance/g:ResourcePackage/l:CodeListScheme/l:CodeList/l:Code/r:Value
2.1.1.4.1	answerCategory		DDIInstance/g:ResourcePackage/l:CategoryScheme/l:Category/l:Label/r:Content
2.1.1.4.1.1	answerCategoryLang	ISO 639-1 + ISO 3166-1	ddi:DDIInstance/g:ResourcePackage/l:CategoryScheme/l:Category/l:Label/r:Content@xml:lang (with e.g. xml:lang = 'en-GB')
2.1.1.4.1.2	answerCategoryTrans		ddi:DDIInstance/g:ResourcePackage/l:CategoryScheme/l:Category/l:Label/r:Content@isTranslated
2.1.1.4.2	answerMissingValue		DDIInstance/g:ResourcePackage/l:CategoryScheme/l:Category @isMissing="true"/"false"
	referenceCodeToCategory		Either URN or triple Agency, ID, Version and the type of referenced object are mandatory in DDI3.2 URN: ddi:DDIInstance/g:ResourcePackage/l:CodeListScheme/l:CodeList/l:Code/r:CategoryReference/r:URN Agency, ID, Version: ddi:DDIInstance/g:ResourcePackage/l:CodeListScheme/l:CodeList/l:Code/r:CategoryReference/r:Agency ddi:DDIInstance/g:ResourcePackage/l:CodeListScheme/l:CodeList/l:Code/r:CategoryReference/r:ID ddi:DDIInstance/g:ResourcePackage/l:CodeListScheme/l:CodeList/l:Code/r:CategoryReference/r:Version
2.1.1.5	referenceCodeToCategoryTyp e	TypeOfObject is Category	ddi:DDIInstance/g:ResourcePackage/l:CodeListScheme/l:CodeList/l:Code/r:CategoryReference/r:TypeOfObject
2.1.1.6			ddi:DDIInstance/g:ResourcePackage/d:QuestionScheme/d:QuestionItem/d:NumericDomain
2.2	**numericDomain**		DDIInstance/g:ResourcePackage/d:QuestionScheme/d:QuestionItem/d:NumericDomain
2.2.1	numericDomainName		DDIInstance/g:ResourcePackage/r:ManagedRepresentationScheme/r:ManagedNumericRepresentation/r:ManagedNumericRepresenta tionName/r:String
2.2.1	numericDomainNameLang	ISO 639-1 + ISO 3166-1	DDIInstance/g:ResourcePackage/r:ManagedRepresentationScheme/r:ManagedNumericRepresentation/r:ManagedNumericRepresenta tionName/r:String@xml:lang
2.2.2	numericDomainLabel		DDIInstance/g:ResourcePackage/d:QuestionScheme/d:QuestionItem/d:NumericDomain/r:Label/r:Content
2.2.2	numericDomainLabelLang	ISO 639-1 + ISO 3166-1	DDIInstance/g:ResourcePackage/d:QuestionScheme/d:QuestionItem/d:NumericDomain/r:Label/r:Content@xml:lang
2.2.3	numericDomainDescription		DDIInstance/g:ResourcePackage/d:QuestionScheme/d:QuestionItem/d:NumericDomain/r:Description/r:Content
2.2.3	numericDomainDescriptionLa ng	ISO 639-1 + ISO 3166-1	DDIInstance/g:ResourcePackage/d:QuestionScheme/d:QuestionItem/d:NumericDomain/r:Description/r:Content@xml:lang
2.2.4	numericDomainRangeLow		DDIInstance/g:ResourcePackage/d:QuestionScheme/d:QuestionItem/d:NumericDomain/r:NumberRange/r:Low
2.2.5	numericDomainRangeHigh		DDIInstance/g:ResourcePackage/d:QuestionScheme/d:QuestionItem/d:NumericDomain/r:NumberRange/r:High
2.3	**textDomain**		DDIInstance/g:ResourcePackage/d:QuestionScheme/d:QuestionItem/d:TextDomain
2.3.1	textDomainName		DDIInstance/g:ResourcePackage/r:ManagedRepresentationScheme/r:ManagedTextRepresentation/r:ManagedTextRepresentationNa me/r:String

2.3.1.1	textDomainNameLang	ISO 639-1 + ISO 3166-1	DDIInstance/g:ResourcePackage/r:ManagedRepresentationScheme/r:ManagedTextRepresentation/r:ManagedTextRepresentationName/r:String@xml:lang
2.3.2	textDomainLabel		DDIInstance/g:ResourcePackage/d:QuestionScheme/d:QuestionItem/d:TextDomain/r:Label/r:Content
2.3.2.1	textDomainLabelLang	ISO 639-1 + ISO 3166-1	DDIInstance/g:ResourcePackage/d:QuestionScheme/d:QuestionItem/d:TextDomain/r:Label/r:Content@xml:lang
2.3.3	textDomainDescription		DDIInstance/g:ResourcePackage/d:QuestionScheme/d:QuestionItem/d:TextDomain/r:Description/r:Content
2.3.3.1	textDomainDescriptionLang	ISO 639-1 + ISO 3166-1	DDIInstance/g:ResourcePackage/d:QuestionScheme/d:QuestionItem/d:TextDomain/r:Description/r:Content@xml:lang
2.3.4	textDomainMinLength		DDIInstance/g:ResourcePackage/d:QuestionScheme/d:QuestionItem/d:TextDomain/@minLength
Information on Concepts			
3	**concept**		DDIInstance/g:ResourcePackage/c:ConceptScheme
3.1	conceptDDIIdentifier		Either URN or triple Agency, ID, Version is mandatory in DDI3.2 URN: ddi:DDIInstance/g:ResourcePackage/c:ConceptScheme/c:Concept/r:URN Agency, ID, Version: ddi:DDIInstance/g:ResourcePackage/c:ConceptScheme/c:Concept/r:ID, ddi:DDIInstance/g:ResourcePackage/c:ConceptScheme/c:Concept/r:Agency, ddi:DDIInstance/g:ResourcePackage/c:ConceptScheme/c:Concept/r:Version
3.2	conceptName		DDIInstance/g:ResourcePackage/c:ConceptScheme/c:Concept/c:ConceptName/r:String
3.2.1	conceptNameLang	ISO 639-1	DDIInstance/g:ResourcePackage/c:ConceptScheme/c:Concept/c:ConceptName/r:String@xml:lang
3.3	conceptLabel		DDIInstance/g:ResourcePackage/c:ConceptScheme/c:Concept/r:Label/r:Content
3.3.1	conceptLabelLang	ISO 639-1	DDIInstance/g:ResourcePackage/c:ConceptScheme/c:Concept/r:Label/r:Content@xml:lang
3.4	conceptDescription		DDIInstance/g:ResourcePackage/c:ConceptScheme/c:Concept/r:Description/r:Content
3.4.1	conceptDescriptionLang	ISO 639-1	DDIInstance/g:ResourcePackage/c:ConceptScheme/c:Concept/r:Description/r:Content@xml:lang
Information on Datasets			
4	**dataset**		ddi:DDIInstance/r:ResourcePackage/pi:PhysicalInstance
4.1	datasetDDIIdentifier		Either URN or triple Agency, ID, Version is mandatory in DDI3.2, URN: ddi:DDIInstance/r:ResourcePackage/pi:PhysicalInstance/r:URN Agency, ID, Version: ddi:DDIInstance/r:ResourcePackage/pi:PhysicalInstance/r:Agency ddi:DDIInstance/r:ResourcePackage/pi:PhysicalInstance/r:ID ddi:DDIInstance/r:ResourcePackage/pi:PhysicalInstance/r:Version
4.2	datasetPID		ddi:DDIInstance/r:ResourcePackage/pi:PhysicalInstance/r:Citation/r:InternationalIdentifier/r:IdentifierContent
4.2.1	datasetPIDType		ddi:DDIInstance/r:ResourcePackage/pi:PhysicalInstance/r:Citation/r:InternationalIdentifier/r:ManagingAgency
4.3	datasetFileName		ddi:DDIInstance/r:ResourcePackage/pi:PhysicalInstance/r:Citation/r:Title/r:String
4.3.1	datasetFileNameLang	ISO 639-1	ddi:DDIInstance/r:ResourcePackage/pi:PhysicalInstance/r:Citation/r:Language

ID	Name	Type/Constraint	Description
4.4	referenceDatasetToStudy		Either URN or triple Agency, ID, Version and the type of referenced object are mandatory in DDI3.2 URN: ddi:DDIInstance/s:StudyUnit/r:PhysicalInstanceReference/r:URN Agency, ID, Version: ddi:DDIInstance/s:StudyUnit/r:PhysicalInstanceReference/r:Agency ddi:DDIInstance/s:StudyUnit/r:PhysicalInstanceReference/r:ID, ddi:DDIInstance/s:StudyUnit/r:PhysicalInstanceReference/r:Version
4.5	**variable**		ddi:DDIInstance/g:ResourcePackage/l:VariableScheme
			Either URN or triple Agency, ID, Version is mandatory in DDI3.2 URN: ddi:DDIInstance/r:ResourcePackage/l:VariableScheme/l:Variable/r:URN Agency, ID, Version: ddi:DDIInstance/r:ResourcePackage/l:VariableScheme/l:Variable/r:Agency, ddi:DDIInstance/r:ResourcePackage/l:VariableScheme/l:Variable/r:ID, ddi:DDIInstance/r:ResourcePackage/l:VariableScheme/l:Variable/r:Version
4.5.1	variableDDIIdentifier		
4.5.2	variableName		ddi:DDIInstance/r:ResourcePackage/l:VariableScheme/l:Variable/l:VariableName/r:String
4.5.2.1	variableNameLang	ISO 639-1	ddi:DDIInstance/r:ResourcePackage/l:VariableScheme/l:Variable/l:VariableName/r:String/@xml:lang
4.5.2.2	variableNameTrans	true, false	ddi:DDIInstance/r:ResourcePackage/l:VariableScheme/l:Variable/l:VariableName/r:String
4.5.3	variableLabel		ddi:DDIInstance/g:ResourcePackage/l:VariableScheme/l:Variable/r:Label/r:Content
4.5.3.1	variableLabelLang	ISO 639-1	ddi:DDIInstance/r:ResourcePackage/l:VariableScheme/l:Variable/r:Label/r:Content/@xml:lang
4.5.3.2	variableLabelTrans	true, false	ddi:DDIInstance/r:ResourcePackage/l:VariableScheme/l:Variable/r:Label/r:Content/@isTranslated
4.5.4	variableDescription		ddi:DDIInstance/g:ResourcePackage/l:VariableScheme/l:Variable/r:Description/r:Content
4.5.4.1	variableDescriptionLang	ISO 639-1	ddi:DDIInstance/g:ResourcePackage/l:VariableScheme/l:Variable/r:Description/r:Content@xml:lang
4.5.4.2	variableDescriptionTrans	true, false	ddi:DDIInstance/g:ResourcePackage/l:VariableScheme/l:Variable/r:Description/r:Content@isTranslated
4.5.5	variableType	"variableType" = numeric	ddi:DDIInstance/g:ResourcePackage/l:VariableScheme/l:Variable/r:Variable/r:UserID/@ typeOfUserID "variableType" = numeric
4.5.6	referenceVariableToCodelist	TypeOfObject is CodeList	Either URN or triple Agency, ID, Version and the type of referenced object are mandatory in DDI3.2 URN: ddi:DDIInstance/g:ResourcePackage/l:VariableScheme/l:Variable/l:VariableRepresentation/r:CodeRepresentation/r:CodeListReferenc e/r:URN Agency, ID, Version: ddi:DDIInstance/g:ResourcePackage/l:VariableScheme/l:Variable/l:VariableRepresentation/r:CodeRepresentation/r:CodeListReferenc e/r:Agency ddi:DDIInstance/g:ResourcePackage/l:VariableScheme/l:Variable/l:VariableRepresentation/r:CodeRepresentation/r:CodeListReferenc e/r:ID ddi:DDIInstance/g:ResourcePackage/l:VariableScheme/l:Variable/l:VariableRepresentation/r:CodeRepresentation/r:CodeListReferenc e/r:Version
4.5.7	referenceVariableToQuestion		Either URN or triple Agency, ID, Version and the type of referenced object are mandatory in DDI3.2 URN: ddi:DDIInstance/g:ResourcePackage/l:VariableScheme/l:Variable/r:QuestionReference/r:URN Agency, ID, Version: ddi:DDIInstance/g:ResourcePackage/l:VariableScheme/l:Variable/r:QuestionReference/r:Agency,

No.	Element	TypeOfObject	XPath
4.5.7.1	referenceOfVariableToQuestionType	QuestionItem	ddi:DDIInstance/g:ResourcePackage/l:VariableScheme/l:Variable/r:QuestionReference/r:ID, ddi:DDIInstance/g:ResourcePackage/l:VariableScheme/l:Variable/r:QuestionReference/r:Version ddi:DDIInstance/g:ResourcePackage/l:VariableScheme/l:Variable/r:QuestionReference/r:TypeOfObject
Information on Intruments			
5	**instrument**		ddi:DDIInstance/r:ResourcePackage/dc:InstrumentScheme
5.1	instrumentDDIidentifier		Either URN or triple Agency, ID, Version is mandatory in DDI3.2, URN: ddi:DDIInstance/r:ResourcePackage/dc:InstrumentScheme/dc:Instrument/r:URN Agency, ID, Version: ddi:DDIInstance/r:ResourcePackage/dc:InstrumentScheme/dc:Instrument/r:Agency ddi:DDIInstance/r:ResourcePackage/dc:InstrumentScheme/dc:Instrument/r:ID ddi:DDIInstance/r:ResourcePackage/dc:InstrumentScheme/dc:Instrument/r:Version
5.2	instrumentName		ddi:DDIInstance/g:ResourcePackage/dc:InstrumentScheme/dc:Instrument/dc:InstrumentName/r:String ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/dc:DataCollection/dc:InstrumentScheme/dc:InstrumentReference/r:TypeOfObject ='Instrument'
5.2.1	instrumentNameLang	ISO 639-1	ddi:DDIInstance/r:ResourcePackage/dc:InstrumentScheme/dc:Instrument/dc:InstrumentName/r:String@xml:lang
5.2.2	instrumentNameTrans	true, false	ddi:DDIInstance/r:ResourcePackage/dc:InstrumentScheme/dc:Instrument/dc:InstrumentName/r:String@isTranslated
5.3	instrumentLanguage	ISO 639-1 + ISO 3166-1	ddi:DDIInstance/g:ResourcePackage/dc:InstrumentScheme/dc:Instrument/dc:ControlConstructReference /r:TypeOfObject (with @objectLanguage="de") + ddi:DDIInstance/g:ResourcePackage/dc:DataCollection/dc:QuestionConstructScheme/dc:QuestionConstruct/r:TypeOfObject="QuestionConstruct" (for all languages) + ddi:DDIInstance/g:ResourcePackage/dc:ControlConstructScheme/dc:QuestionConstruct/r:QuestionReference/r:TypeOfObject="QuestionItem" + ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionItem/dc:QuestionText/dc:LiteralText/dc:Text (with @xml:lang="de" or xml:lang="en")
5.4	referenceInstrumentToQuestion		Either URN or triple Agency, ID, Version and the type of referenced object are mandatory in DDI3.2 URN: ddi:DDIInstance/g:ResourcePackage/dc:ControlConstructScheme/dc:QuestionConstruct/dc:QuestionReference/r:URN Agency, ID, Version: ddi:DDIInstance/g:ResourcePackage/dc:ControlConstructScheme/dc:QuestionConstruct/dc:QuestionReference/r:Agency ddi:DDIInstance/g:ResourcePackage/dc:ControlConstructScheme/dc:QuestionConstruct/dc:QuestionReference/r:ID ddi:DDIInstance/g:ResourcePackage/dc:ControlConstructScheme/dc:QuestionConstruct/dc:QuestionReference/r:Version + ddi:DDIInstance/g:ResourcePackage/dc:ControlConstructScheme/dc:Sequence/dc:ControlConstructReference/r:TypeOfObject="QuestionConstruct"
5.5	referenceInstrumentToQuestionType	QuestionItem	ddi:DDIInstance/g:ResourcePackage/dc:ControlConstructScheme/dc:ControlConstructScheme/dc:QuestionConstruct/dc:QuestionReference/r:TypeOfObject

Information on Study

6	studyInformation		ddi:DDIInstance/s:StudyUnit
6.1	Study DDI Identifier		Either URN or triple Agency, ID, Version is mandatory in DDI3.2, URN: ddi:DDIInstance/s:StudyUnit/r:URN Agency, ID, Version: ddi:DDIInstance/s:StudyUnit/r:Agency, ddi:DDIInstance/s:StudyUnit/r:ID, ddi:DDIInstance/s:StudyUnit/r:Version
6.2	studyPID		ddi:DDIInstance/s:StudyUnit/r:Citation/r:InternationalIdentifier/r:IdentifierContent
6.2.1	studyPIDType		ddi:DDIInstance/s:StudyUnit/r:Citation/r:InternationalIdentifier/r:ManagingAgency
6.3	studyNumber		ddi:DDIInstance/s:StudyUnit/r:UserID
6.3.1	studyNumberType	UniqueArchivalNumber	ddi:DDIInstance/s:StudyUnit/r:UserID/@typeOfUserID="UniqueArchivalNumber">ZA4800</r:UserID
6.4	studyVersionNumber		ddi:DDIInstance/s:StudyUnit/r:UserID Example: UserID typeOfUserID="VersionNumber">4.0.0</r:UserID
6.5	studyVersiondate	ISO 8601	ddi:DDIInstance/s:StudyUnit/r:UserID Example: UserID typeOfUserID="VersionDate">2018-03-27</r:UserID
6.6	studyTitle		ddi:DDIInstance/s:StudyUnit/r:Citation/r:Title/r:String
6.6.1	studyTitleLang	ISO 639-1	ddi:DDIInstance/s:StudyUnit/r:Citation/r:Title/r:String/@xml:lang
6.6.2	studyTitleTrans	true, false	ddi:DDIInstance/s:StudyUnit/r:Citation/r:Title/r:String/@isTranslated
6.7	studyDescription		ddi:DDIInstance/s:StudyUnit/r:Abstract
6.7.1	studyDescriptionLang		ddi:DDIInstance/s:StudyUnit/r:Abstract/r:Content/@xml:lang
6.8	SPURL		ddi:DDIInstance/s:StudyUnit/r:UserID Example: r:UserID typeOfUserID="URLServiceProvider">hhtp://x.y.z</r:UserID
6.9	CDCURL		ddi:DDIInstance/s:StudyUnit/r:Citation/dc:extent
6.10	publicationDate	ISO 8601	ddi:DDIInstance/s:StudyUnit/r:Citation/r:PublicationDate/r:SimpleDate
6.11	publisherName		ddi:DDIInstance/s:StudyUnit/r:Citation/r:Publisher/r:PublisherName
6.11.1	publisherNameLang		ddi:DDIInstance/s:StudyUnit/r:Citation/r:Publisher/r:PublisherName/r:String/@xml:lang
6.11.2	publisherNameTrans		ddi:DDIInstance/s:StudyUnit/r:Citation/r:Publisher/r:PublisherName/r:String/@isTranslated
6.12	referenceStudyPerson		ddi:DDIInstance/s:StudyUnit/r:Citation/r:Creator/r:CreatorReference with TypeOfObject=Individual
6.13	referenceStudyToInstitution		ddi:DDIInstance/s:StudyUnit/r:Citation/r:Creator/r:CreatorReference
6.14	referenceStudyToInstrument		/ddi:DDIInstance/s:StudyUnit/dc:DataCollection/dc:InstrumentScheme/dc:InstrumentReference/r:TypeOfObject='Instrument'
6.15	**timeMethod**		/ddi:DDIInstance/s:StudyUnit/dc:DataCollection/dc:Methodology/dc:TimeMethod/dc:TypeOfTimeMethod
6.15.1	timeMethodControlled		ddi:DDIInstance/s:StudyUnit/dc:DataCollection/dc:Methodology/dc:TimeMethod/dc:TypeofTimeMethod
6.15.2	timeMethodDescriptive		ddi:DDIInstance/s:StudyUnit/dc:DataCollection/dc:Methodology/dc:TimeMethod/r: Description/r:Content
6.15.2.1	timeMethodLang	ISO 639-1	ddi:DDIInstance/s:StudyUnit/dc:DataCollection/dc:Methodology/dc:TimeMethod/r: Description/r:Content/@xml:lang
6.15.3	timeMethodName	DDI Time Method	ddi:DDIInstance/s:StudyUnit/dc:DataCollection/dc:Methodology/dc:TimeMethod/dc:TypeofTimeMethod/@codeListName
6.15.4	timeMethodAgency	DDI Alliance	ddi:DDIInstance/s:StudyUnit/dc:DataCollection/dc:Methodology/dc:TimeMethod/dc:TypeofTimeMethod/@codeListAgencyName
6.15.5	timeMethodURL		ddi:DDIInstance/s:StudyUnit/dc:DataCollection/dc:Methodology/dc:TimeMethod/dc:TypeofTimeMethod/@codeListURN

6.16	**country**	ISO 3166-1 alpha 2	ddi:DDIInstance/s:StudyUnit/dc:DataCollection/r:Coverage/r:SpatialCoverage/r:Country_2
6.16.1	Study Area Vocabulary		ddi:DDIInstance/s:StudyUnit/r:Coverage/r:SpatialCoverage/r:Country_2@codeListName
6.16.2	Study Area Vocabulary Agency		ddi:DDIInstance/s:StudyUnit/r:Coverage/r:SpatialCoverage/r:Country_2/@codeListAgency
6.16.3	Study Area Vocabulary URL		ddi:DDIInstance/s:StudyUnit/r:Coverage/r:SpatialCoverage/r:Country_2/@codeListURN
6.17	**samplingProcedure**		ddi:DDIInstance/s:StudyUnit/dc:DataCollection/dc:Methodology/dc:SamplingProcedure
6.17.1	samplingProcedureControlled		ddi:DDIInstance/s:StudyUnit/dc:DataCollection/dc:Methodology/dc:SamplingProcedure/dc:TypeOfSamplingProcedure
6.17.2	samplingProcedureDescriptive		No corresponding element/attribute in DDI 3.2, available in DDI 2.5
6.17.2.1	samplingProcedureLang	ISO 639-1	No corresponding element/attribute in DDI 3.2, available in DDI 2.5
6.17.3	samplingProcedureName	DDI SamplingProcedure	ddi:DDIInstance/s:StudyUnit/dc:DataCollection/dc:Methodology/dc:SamplingProcedure/dc:TypeOfSamplingProcedure/@codeListName
6.17.4	samplingProcedureAgency	DDI Alliance	ddi:DDIInstance/s:StudyUnit/dc:DataCollection/dc:Methodology/dc:SamplingProcedure/dc:TypeOfSamplingProcedure/@codeListAgencyName
6.17.5	samplingProcedureURL		ddi:DDIInstance/s:StudyUnit/dc:DataCollection/dc:Methodology/dc:SamplingProcedure/dc:TypeOfSamplingProcedure/@codeListURN
6.18	**modeOfCollection**		ddi:DDIInstance/s:StudyUnit/dc:DataCollection/dc:CollectionEvent/dc:ModeOfCollection
6.18.1	modeOfCollectionControlled		ddi:DDIInstance/s:StudyUnit/dc:DataCollection/dc:CollectionEvent/dc:ModeOfCollection/dc:TypeOfModeOfCollection
6.18.2	modeOfCollectionDescriptive		No corresponding element/attribute in DDI 3.2, available in DDI 2.5
6.18.2.1	modeOfCollectionLang	ISO 639-1	No corresponding element/attribute in DDI 3.2, available in DDI 2.5
6.18.3	modeOfCollectionName	DDI ModeofCollection	ddi:DDIInstance/s:StudyUnit/dc:DataCollection/dc:CollectionEvent/dc:ModeofCollection/dc:TypeofModeofCollection@codeListAgencyName
6.18.4	modeOfCollectionAgency	DDI Alliance	ddi:DDIInstance/s:StudyUnit/dc:DataCollection/dc:CollectionEvent/dc:ModeofCollection/dc:TypeofModeofCollection@codeListName
6.18.5	modeOfCollectionURL		ddi:DDIInstance/s:StudyUnit/dc:DataCollection/dc:CollectionEvent/dc:ModeofCollection/dc:TypeofModeofCollection@codeListAgencyURN
6.19	**dataCollectionDate**		ddi:DDIInstance/s:StudyUnit/dc:DataCollection/r:Coverage/r:TemporalCoverage
6.19.1	**dataCollectionStartdate**	ISO 8601	ddi:DDIInstance/s:StudyUnit/dc:DataCollection/r:Coverage/r:TemporalCoverage/r:ReferenceDate/r:StartDate
6.19.1.1	date		ddi:DDIInstance/s:StudyUnit/dc:DataCollection/r:Coverage/r:TemporalCoverage/r:ReferenceDate/r:StartDate=Content{xs:date}
6.19.1.2	monthyear		ddi:DDIInstance/s:StudyUnit/dc:DataCollection/r:Coverage/r:TemporalCoverage/r:ReferenceDate/r:StartDate=Content{xs:gYearMonth}

6.19.1.3	year		ddi:DDIInstance/s:StudyUnit/dc:DataCollection/r:Coverage/r:TemporalCoverage/r:ReferenceDate/r:StartDate=Content {xs:gYear}
6.19.2	**dataCollectionEnddate**	ISO 8601	ddi:DDIInstance/s:StudyUnit/dc:DataCollection/r:Coverage/r:TemporalCoverage/r:ReferenceDate/r:EndDate
6.19.2.1	date		ddi:DDIInstance/s:StudyUnit/dc:DataCollection/r:Coverage/r:TemporalCoverage/r:ReferenceDate/r:EndDate=Content{xs:date}
6.19.2.2	monthyear		ddi:DDIInstance/s:StudyUnit/dc:DataCollection/r:Coverage/r:TemporalCoverage/r:ReferenceDate/r:EndDate=Content {xs:gYearMonth}
6.19.2.3	year		ddi:DDIInstance/s:StudyUnit/dc:DataCollection/r:Coverage/r:TemporalCoverage/r:ReferenceDate/r:EndDate=Content {xs:gYear}
6.20	**topicClassification**		ddi:DDIInstance/s:StudyUnit/r:Coverage/r:TopicalCoverage
6.20.1	topicControlledDescriptive		ddi:DDIInstance/s:StudyUnit/r:Coverage/r:TopicalCoverage/r:Subject
6.20.1.1	topicLang	ISO 639-1	ddi:DDIInstance/s:StudyUnit/r:Coverage/r:TopicalCoverage/r:Subject/@xml:lang
6.20.2	topicName		ddi:DDIInstance/s:StudyUnit/r:Coverage/r:TopicalCoverage/r:Subject/@codeListName
6.20.3	topicAgency		ddi:DDIInstance/s:StudyUnit/r:Coverage/r:TopicalCoverage/r:Subject/@codeListAgencyName
6.20.4	topicURL		ddi:DDIInstance/s:StudyUnit/r:Coverage/r:TopicalCoverage/r:Subject/@codeListURN
6.21	**accessInformation**		ddi:DDIInstance/s:StudyUnit/a:Archive/a:ArchiveSpecific/a:Item/a:Access
6.21.1	dataAccess		ddi:DDIInstance/s:StudyUnit/a:Archive/a:ArchiveSpecific/a:Item/a:Access/r:Description/r:Content
6.21.1.1	dataAccessLang	ISO 639-1	ddi:DDIInstance/s:StudyUnit/a:Archive/a:ArchiveSpecific/a:Item/a:Access/r:Description/r:Content/@xml:lang
6.21.2	dataAccessCondition		ddi:DDIInstance/s:StudyUnit/a:Archive/a:ArchiveSpecific/a:Item/a:Access/a:AccessConditions/r:Content
6.21.2.1	dataAccessConditionLang	ISO 639-1	ddi:DDIInstance/s:StudyUnit/a:Archive/a:ArchiveSpecific/a:Item/a:Access/a:AccessConditions/r:Content@xml:lang
6.21.3	metadataAccessStudy		ddi:DDIInstance/s:StudyUnit/a:Archive/a:ArchiveSpecific/a:Collection/a:Item/a:Access/a:AccessConditions/r:Content ddi:DDIInstance/s:StudyUnit/a:Archive/a:ArchiveSpecific/a:Collection/a:Item/a:CallNumber = ZA1234 (Studynumber)
6.21.3.1	metadataAccessStudy	ISO 639-1	ddi:DDIInstance/s:StudyUnit/a:Archive/a:ArchiveSpecific/a:Collection/a:Item/a:Access/a:AccessConditions/r:Content@xml:lang
Information on StudyGroup			
7	**studyGroupInformation**		ddi:DDIInstance/g:Group
7.1	studyGroupDDIIdentifier		Either URN or triple Agency, ID, Version is mandatory in DDI3.2, URN: ddi:DDIInstance/g:Group/r:URN Agency, ID, Version: ddi:DDIInstance/g:Group/r:Agency, ddi:DDIInstance/g:Group/r:ID, ddi:DDIInstance/g:Group/r:Version
7.2	studyGroupID		ddi:DDIInstance/g:Group/r:UserID
7.2.1	studyGroupIDType	GroupID	ddi:DDIInstance/g:Group/r:UserID/@ typeOfUserID
7.3	studyGroupTitle		ddi:DDIInstance/g:Group/r:Citation/r:Title/r:String
7.3.1	studyGroupTitleLang	ISO 639-1	ddi:DDIInstance/g:Group/r:Citation/r:Title/r:String/@xml:lang
7.3.2	studyGroupTitleTrans	true, false	ddi:DDIInstance/g:Group/r:Citation/r:Title/r:String/@isTranslated
7.4	studyGroupUrl		ddi:DDIInstance/g:Group/r:UserID (with e.g. UserID typeOfUserID="URLServiceProvider"> http://www.example.com/ </r:UserID
7.5	referenceGroupToStudy		Either URN or triple Agency, ID, Version and the type of referenced object are mandatory in DDI3.2, URN: ddi:DDIInstance/g:Group/r:StudyUnitReference/r:URN Agency, ID, Version: ddi:DDIInstance/g:Group/r:StudyUnitReference/r:Agency

			ddi:DDIInstance/g:Group/r:StudyUnitReference/r:ID ddi:DDIInstance/g:Group/r:StudyUnitReference/r:Version
7.5.1	referenceGroupToStudyType	Type of object is StudyUnit	ddi:DDIInstance/g:Group/r:StudyUnitReference/r:TypeOfObject='StudyUnit' (Use 6.1 ddi:DDIInstance/s:StudyUnit/r:ID)
7.6	referenceToDocument	Type of object is OtherMaterial	ddi:DDIInstance/g:Group/r:StudyUnitReference/r:TypeOfObject= "OtherMaterial" (Use 10.1 documentID)
Information on Person(s) and Institution(s)			
8	**persons**		ddi:DDIInstance/g:ResourcePackage/a:OrganizationScheme/a:Individual
			Either URN or triple Agency, ID, Version is mandatory in DDI3.2, URN: ddi:DDIInstance/g:ResourcePackage/a:OrganizationScheme/a:Individual/r:URN Agency, ID, Version: ddi:DDIInstance/g:ResourcePackage/a:OrganizationScheme/a:Individual/r:Agency, ddi:DDIInstance/g:ResourcePackage/a:OrganizationScheme/a:Individual/r:ID, ddi:DDIInstance/g:ResourcePackage/a:OrganizationScheme/a:Individual/r:Version
8.1	personDDIIdentifier		
8.2	**personName**		ddi:DDIInstance/g:ResourcePackage/a:OrganizationScheme/a:Individual/a:IndividualName
8.2.1	firstName		ddi:DDIInstance/g:ResourcePackage/a:OrganizationScheme/a:Individual/a:IndividualName/a:FirstGiven
8.2.2	middleName		ddi:DDIInstance/g:ResourcePackage/a:OrganizationScheme/a:Individual/a:IndividualName/a:Middle [if applicable]
8.2.3	lastName		ddi:DDIInstance/g:ResourcePackage/a:OrganizationScheme/a:Individual/a:IndividualName/a:LastFamily
8.3	**associatedOrga**		ddi:DDIInstance/g:ResourcePackage/a:OrganizationScheme/r:Relation
8.3.1	sourceObjectReference		In DDI3.2 you need to create relation between referenced source object (individual) and referenced target object (organization) to affiliate organization and individual (person) together. Individual: Either URN or triple Agency, ID, Version and the type of referenced object are mandatory in DDI3.2 URN: ddi:DDIInstance/g:ResourcePackage/a:OrganizationScheme/r:Relation/a:SourceObject/a:IndividualReference/r:URN Agency, ID, Version: ddi:DDIInstance/g:ResourcePackage/a:OrganizationScheme/r:Relation/a:SourceObject/a:IndividualReference/r:Agency ddi:DDIInstance/g:ResourcePackage/a:OrganizationScheme/r:Relation/a:SourceObject/a:IndividualReference/r:ID ddi:DDIInstance/g:ResourcePackage/a:OrganizationScheme/r:Relation/a:SourceObject/a:IndividualReference/r:Version
8.3.1.1	sourceObjectReferenceType	TypeOfObject =Individual	ddi:DDIInstance/g:ResourcePackage/a:OrganizationScheme/r:Relation/a:SourceObject/a:IndividualReference/r:TypeOfObject='Individual'
8.3.2	targetObjectRole	Affiliation	ddi:DDIInstance/g:ResourcePackage/a:OrganizationScheme/r:Relation/a:Role/r:Description/r:Content='Affiliation'
8.3.3	targetObjectReference		In DDI3.2 you need to create relation between referenced source object (individual) and referenced target object (organization) to affiliate organization and individual (person) together. Either URN or triple Agency, ID, Version and the type of referenced object are mandatory in DDI3.2

			URN: ddi:DDIInstance/g:ResourcePackage/a:OrganizationScheme/r:Relation/a:TargetObject/a:OrganizationReference/r:URN Agency, ID, Version: ddi:DDIInstance/g:ResourcePackage/a:OrganizationScheme/r:Relation/a:TargetObject/a:OrganizationReference/r:Agency ddi:DDIInstance/g:ResourcePackage/a:OrganizationScheme/r:Relation/a:TargetObject/a:OrganizationReference/r:ID ddi:DDIInstance/g:ResourcePackage/a:OrganizationScheme/r:Relation/a:TargetObject/a:OrganizationReference/r:Version
8.3.3.1	targetObjectReferenceType	TypeOfObject =Organizatio n	ddi:DDIInstance/g:ResourcePackage/a:OrganizationScheme/r:Relation/a:TargetObject/a:OrganizationReference/r:TypeOfObject='Or ganization'
9	**institution**		
			Either URN or triple Agency, ID, Version is mandatory in DDI3.2, URN: ddi:DDIInstance/g:ResourcePackage/a:OrganizationScheme/a:Organization/r:URN Agency, ID, Version : ddi:DDIInstance/g:ResourcePackage/a:OrganizationScheme/a:Organization/r:Agency, ddi:DDIInstance/g:ResourcePackage/a:OrganizationScheme/a:Organization/r:ID,
9.1	institutionDDIIdentifier		ddi:DDIInstance/g:ResourcePackage/a:OrganizationScheme/a:Organization/r:Version
9.2	institutionName		ddi:DDIInstance/g:ResourcePackage/a:OrganizationScheme/a:Organization/a:OrganizationIdentification/a:OrganizationName/r:String
9.2.1	institutionNameLang		ddi:DDIInstance/g:ResourcePackage/a:OrganizationScheme/a:Organization/a:OrganizationIdentification/a:OrganizationName/r:String /@xml:lang
9.3	institutionAbbreviation		ddi:DDIInstance/g:ResourcePackage/a:OrganizationScheme/a:Organization/a:OrganizationIdentification/a:OrganizationName/r:Abbre viation/r:String
Information on Documentation			
10	**documentation**		ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:OtherMaterial
10.1	documentID		ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:OtherMaterial/r:UserID
10.1.1	documentIDType	DocumentID	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:OtherMaterial/r:UserID/@typeOfUserID
10.2	documentTitle		ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:OtherMaterial/r:Citation/r:Title/r:String
10.2.1	documentTitleLang	ISO 639-1	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:OtherMaterial/r:Citation/r:Title/r:String/@xml:lang
10.3	documentType		ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:OtherMaterial/r:TypeOfMaterial
10.4	documentURL		ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:OtherMaterial/r:ExternalURLReference
10.5	referenceStudyToDocument		Allocation to the study is covered by the fact that OtherMaterial is under StudyUnit: ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:OtherMaterial
Information on Metadata			
11	**documentationMetadata**		ddi:DDIInstance/r:Citation
11.1	documentationCopyright		ddi:DDIInstance/r:Citation/r:Copyright/r:String
11.1.1	documentationCopyrightLang	ISO 639-1	ddi:DDIInstance/r:Citation/r:Copyright/r:String/@xml:lang

11.2	documentationPublisherReference		Either URN or triple Agency, ID, Version and the type of referenced object are mandatory in DDI3.2 URN: ddi:DDIInstance/r:Citation/r:Publisher/r:Publisher/PublisherReference/r:URN Agency, ID, Version: ddi:DDIInstance/r:Citation/r:Publisher/PublisherReference/r:Agency ddi:DDIInstance/r:Citation/r:Publisher/PublisherReference/r:ID, ddi:DDIInstance/r:Citation/r:Publisher/PublisherReference/r:Version
11.2.1	documentationPublisherReferenceType	Type of object is either Individual or Organization	ddi:DDIInstance/r:Citation/r:Publisher/r:PublisherReference/r:TypeOfObject
11.3	metadataAccessConditionAll		ddi:DDIInstance/s:StudyUnit/a:Archive/a:ArchiveSpecific/a:Collection/a:DefaultAccess/a:AccessConditions/r:Content