



4

BRICS USER GUIDE

Data Dictionary: Data Elements



Data Dictionary – Data Elements

The **Data Dictionary** module is used for defining data elements and form structures. Data Dictionary allows users to search, create and manage Common Data Elements (CDE) and Unique Data Elements (UDE), create, and manage form structures (FS) and electronic forms (eFORMS). The Data Dictionary module is closely related to the Data Repository module which provides long term repository for research data.

4.1 Data Dictionary Objective

- Browse existing Data Elements
- Search Data Elements
- Create Data Elements
- Import Data Elements
- Browse existing eForms
- Search eForms
- Create eForms

4.2 System Functions

The Data Dictionary module provides the tools for defining the data you submit as well as provide alternate terms (aliasing) and translation rules for the same element. Importantly, the BRICS data dictionary provides those who have access to the data with clear and precise information about what it is they are accessing.

4.3 Data Dictionary Module Features

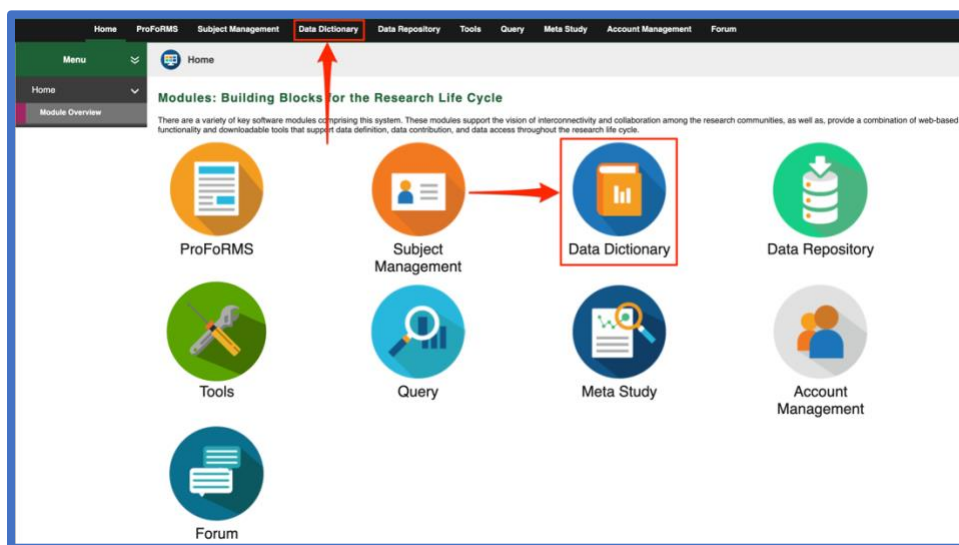
The **Data Dictionary Module** provides useful features for:

- Searching Data Elements
- Downloading Data Elements Results to XML, CSV and ZIP output formats
- Creating Data Elements
- Importing Data Elements

4.4 Module Navigation

The **Data Dictionary** module (including sub-modules) is available within the BRICS Workspace. **To Access the Data Dictionary Module:** Perform the following actions:

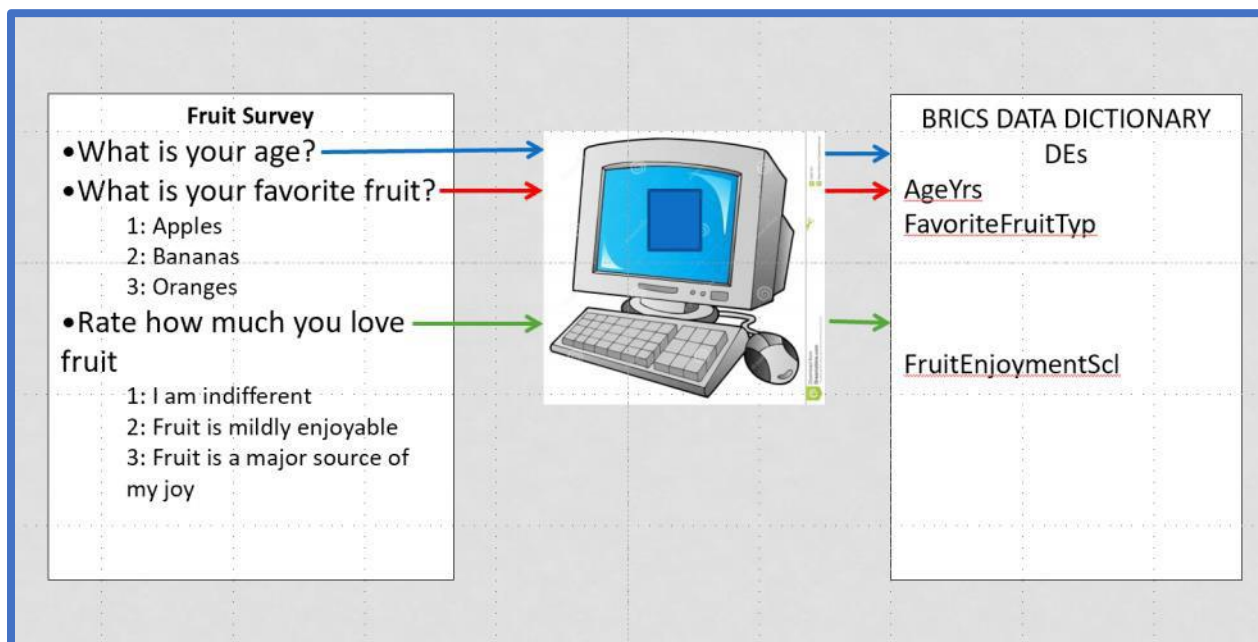
1. Log into your BRICS instance and select the Data Dictionary module from either the top navigation bar or the module icon.



4.5 Data Elements

A simple definition of a data element:

A data element (DE) is a logical unit of data, pertaining to information of one kind. It has a name, precise definition, and a set of permissible values (if applicable). A DE occupies the space provided by field(s) on a paper/electronic case report form (CRF) or field(s) in a database record.



In more elaborated terms:

The data element is a key foundational concept in an [ISO/IEC 11179 metadata registry](#). The purpose of this registry is to maintain a semantically precise structure of data elements.

According to ISO/IEC 11179 metadata registry, each data element:

1. Should be registered according to the Registration guidelines (11179-6)
2. Is uniquely identified within the register (11179-5)
3. Named according to Naming and Identification Principles (11179-5) See data element name
4. Defined by the Formulation of Data Definitions rules (11179-4)
5. Classified in a Classification Scheme (11179-2) See classification scheme
6. Data elements that store "Codes" or enumerated values must also specify the semantics of each of the code values with precise definitions.

4.5.1 Types of Data Elements Used in BRICS

Common Data Elements (CDEs) – the data elements which are widely adopted by the community and used across multiple studies/projects. An example: NINDS CDE project

Unique Data Elements (UDEs) – the data elements which are study/project specific and designed to accommodate a specific set of data. A UDE is typically created when a CDE does not exist to accommodate the data.

4.5.2 Important Features of a Data Element (DE)

1. **Variable Name** – a unique variable name/ID of the Data Element (DE).
2. **Title** - a brief description for the Data Element; it should represent the essence of the question associated with the DE through discrete concepts.
3. **Definition** - An explanation of the nature, scope, or meaning of the DE.
4. **Guidelines**- Additional details about the DE beyond the definition. This may include instructions to the patient on how to respond to a question, instructions on how to conduct a laboratory test, etc.
5. **Reference** - Information describing the history or origin of a DE, as well as its scientific validity. This can include references to journal articles, Vocabularies or Data Standards, review process, validation, owner or creator, or other information.
6. **Permissible Values** - The set of possible values or responses. A Value Set often includes concepts from established Vocabularies or Data Standards. For laboratory tests, a value set may include a range of permissible values and indicate the required units. For a survey question, the value set may be a list of possible responses.

More in Data Element Import Template Explained

4.5.3 Life cycle of Data Elements

Type	Description	Visibility	Editable?	Data Validation	Data Submission
Draft	In a process of development	Required to log in into portal. Available for the owner, admin and to whom were given permissions only	Yes	Yes	No
Awaiting Publication	A publication has been requested for this DE	All users, including the public site	Yes	Yes	No
Published	The DE which is complete and available for public use	All users, including the public site	Limited. Can edit Title, Description, add/remove documentation	Yes	Yes

4.5.4 Browse Data Elements

You can browse data elements on BRICS public site data dictionary and portal (login required).

E.g. on FITBIR public site, the published and awaiting publication data elements are available via the following link (<https://fitbir.nih.gov/content/data-dictionary>).

Home
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Meta Study
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Forum

Menu

Data Dictionary Tool
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Data Elements
Search
Create
Import
eForms

Narrow your search
Clear Filters
Restore Default
Resource
Ownership
Modified Date

Data Dictionary

Search Data Elements
Search Locations
Advanced Search
Launch UMLS Mapping Tool

Download 2730 Results

Show 25 entries

TITLE	VARIABLE NAME	TYPE	MODIFIED DATE	STATUS
(USCDI) An identifier for this patient	PatientIdentifier	CDE	2025-01-16	Awaiting Publication
12-Item Short Form Health Survey Version 1 (SF-12v1) - Times calm peaceful scale_CR	SF12TimesCalmPfulScaleModCR	UDE	2019-07-18	Published
ABS injury model - blast tube length measurement value	ABSTubeLengthVal	CDE	2019-02-12	Published
ABS injury model - blast tube or column area measurement value	ABSTubeAreaVal	CDE	2019-02-12	Awaiting Publication
ABS injury model - blast-induced delivery device text	ABSBlastDevTxt	CDE	2019-02-12	Awaiting Publication
ABS injury model - detonation material sheets count	ABSDetonMaterSheetCt	CDE	2019-02-12	Awaiting Publication
ABS injury model - disposition of the animal and the tube text	ABSAAnimalDispTxt	CDE	2019-02-12	Awaiting Publication
ABS injury model - distance from detonation measurement value	ABSDistDetonMeasVal	CDE	2019-02-12	Awaiting Publication
ABS injury model - impact location side type	ABSImpactLocSideTyp	CDE	2019-02-12	Awaiting Publication
ABS injury model - overpressure peak value	ABSOVerpressurePeakVal	CDE	2019-02-12	Awaiting Publication

1. Browse data elements
2. Search data elements
3. Sort data elements by Title, Variable Name, Type, Status, and Modified Date.
4. Use the check boxes on the left side panel to filter data elements by Status, Element Type, Disease category, Population, etc.

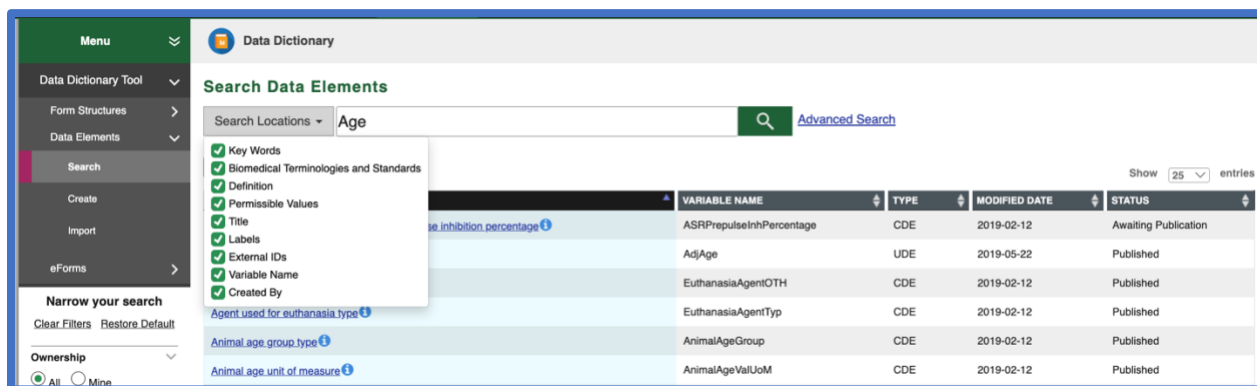
The same actions could be performed when you log in into portal.

4.5.5 Search Data Elements

You can search for data elements using specified search terms on both BRICS public site and portal (login required).

To Search Data Elements perform the following actions:

1. Log in into the system. Navigate to the Data Dictionary module.
2. Click the Data Dictionary module. The Search Form Structures page appears.
3. Click the hamburger menu the left-side tool bar.
4. The Data Dictionary Module menu opens and expands.
5. Select Search under Data Elements from the left-hand drop-down menu.
6. Using the search text-box, enter the search keyword to search.
7. Keyword search will be performed within the form fields using the Search Locations(Keywords, Definition, Permissible Values, External IDs, Variable Name, Created Date).
8. You might want to limit your search options by using “Search Locations” options.



Data Dictionary

Search Data Elements

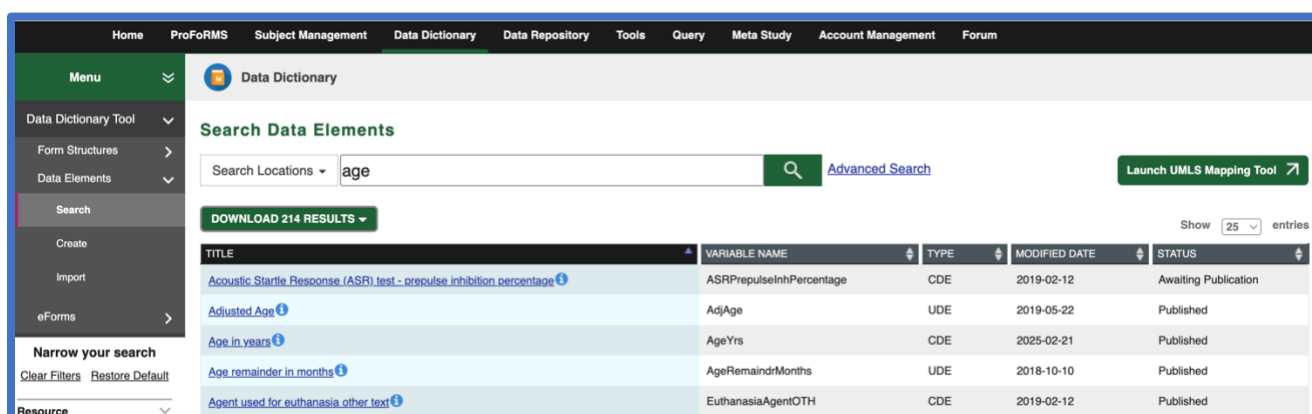
Search Locations: Age [Advanced Search](#)

Key Words
Biomedical Terminologies and Standards
Definition
Permissible Values
Title
Labels
External IDs
Variable Name
Created By

Agent used for euthanasia type
Animal age group type
Animal age unit of measure

TITLE	VARIABLE NAME	TYPE	MODIFIED DATE	STATUS
Acoustic Startle Response (ASR) test - prepulse inhibition percentage	ASRPrepulseInhPercentage	CDE	2019-02-12	Awaiting Publication
Adjusted Age	AdjAge	UDE	2019-05-22	Published
Age in years	AgeYrs	CDE	2025-02-21	Published
Age remainder in months	AgeRemaindrMonths	UDE	2018-10-10	Published
Agent used for euthanasia other text	EuthanasiaAgentOTH	CDE	2019-02-12	Published

9. You may also narrow your search by selecting the check-box beside the criteria you wish to search (Ownership, Status, Modified Date, Element Type, Form Types, Standardization, Diseases, Population, etc).
10. Click the Search button to process your search results.
11. When search results appear in the data element table, you can review it in the table, or use the **DOWNLOAD ALL RESULTS** button at the top right of the table to download the search result.



Data Dictionary

Search Data Elements

Search Locations: age [Advanced Search](#) [Launch UMLS Mapping Tool](#)

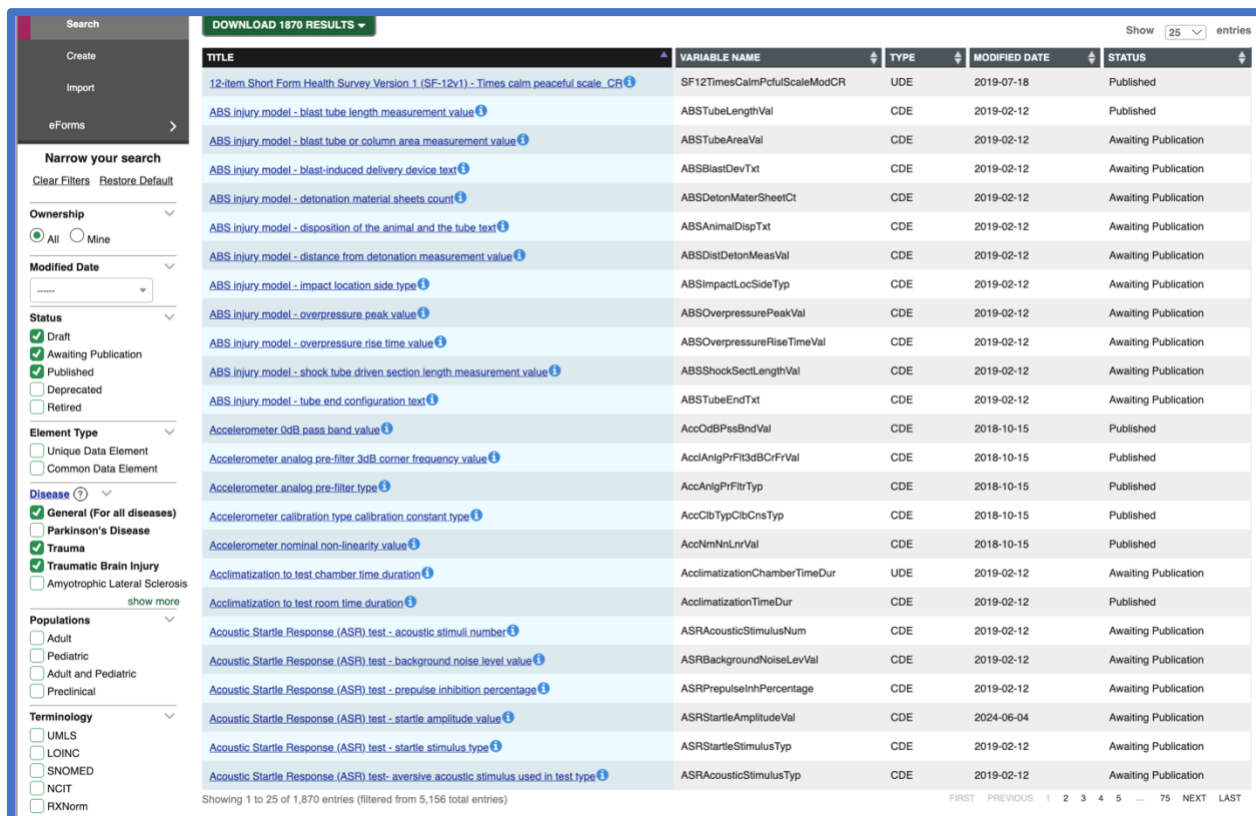
DOWNLOAD 214 RESULTS

Show 25 entries

TITLE	VARIABLE NAME	TYPE	MODIFIED DATE	STATUS
Acoustic Startle Response (ASR) test - prepulse inhibition percentage	ASRPrepulseInhPercentage	CDE	2019-02-12	Awaiting Publication
Adjusted Age	AdjAge	UDE	2019-05-22	Published
Age in years	AgeYrs	CDE	2025-02-21	Published
Age remainder in months	AgeRemaindrMonths	UDE	2018-10-10	Published
Agent used for euthanasia other text	EuthanasiaAgentOTH	CDE	2019-02-12	Published

4.5.6 To narrow your search results

If there are too many DEs found, use the controls on the left side panel, under “Narrow your search”:



The screenshot displays the BRICS search interface. On the left, a sidebar contains a 'Search' button and a 'Narrow your search' section with various filters. The main area shows a table of 1,870 results, with the first 25 entries visible. The table columns are: TITLE, VARIABLE NAME, TYPE, MODIFIED DATE, and STATUS. The results are filtered by 'Ownership' (All), 'Modified Date' (empty), 'Status' (Draft, Awaiting Publication, Published, Deprecated, Retired), 'Element Type' (Unique Data Element, Common Data Element), 'Disease' (General, Parkinson's Disease, Trauma, Traumatic Brain Injury, Amyotrophic Lateral Sclerosis), 'Populations' (Adult, Pediatric, Adult and Pediatric, Preclinical), and 'Terminology' (UMLS, LOINC, SNOMED, NCIT, RXNorm).

TITLE	VARIABLE NAME	TYPE	MODIFIED DATE	STATUS
12-Item Short Form Health Survey Version 1 (SF-12v1) - Times calm peaceful scale_CR	SF12TimesCalmPcfuScaleModCR	UDE	2019-07-18	Published
ABS injury model - blast tube length measurement value	ABSTubeLengthVal	CDE	2019-02-12	Published
ABS injury model - blast tube or column area measurement value	ABSTubeAreaVal	CDE	2019-02-12	Awaiting Publication
ABS injury model - blast-induced delivery device text	ABSBlastDevTxt	CDE	2019-02-12	Awaiting Publication
ABS injury model - detonation material sheets count	ABSDetonMaterSheetCt	CDE	2019-02-12	Awaiting Publication
ABS injury model - disposition of the animal and the tube text	ABSTubeDispTxt	CDE	2019-02-12	Awaiting Publication
ABS injury model - distance from detonation measurement value	ABSDistDetonMeasVal	CDE	2019-02-12	Awaiting Publication
ABS injury model - impact location side type	ABSTubeImpactSideTyp	CDE	2019-02-12	Awaiting Publication
ABS injury model - overpressure peak value	ABSOVerpressurePeakVal	CDE	2019-02-12	Awaiting Publication
ABS injury model - overpressure rise time value	ABSOVerpressureRiseTimeVal	CDE	2019-02-12	Awaiting Publication
ABS injury model - shock tube driven section length measurement value	ABSShockSectLengthVal	CDE	2019-02-12	Awaiting Publication
ABS injury model - tube end configuration text	ABSTubeEndTxt	CDE	2019-02-12	Awaiting Publication
Accelerometer 0dB pass band value	Acc0dBPassBandVal	CDE	2018-10-15	Published
Accelerometer analog pre-filter 3dB corner frequency value	AccAnalogPreFilter3DBCrFVal	CDE	2018-10-15	Published
Accelerometer analog pre-filter type	AccAnalogPreFilterTyp	CDE	2018-10-15	Published
Accelerometer calibration type calibration constant type	AccCalibTypCalibCnsTyp	CDE	2018-10-15	Published
Accelerometer nominal non-linearity value	AccNmNmLnVal	CDE	2018-10-15	Published
Acclimatization to test chamber time duration	AccImatizationChamberTimeDur	UDE	2019-02-12	Awaiting Publication
Acclimatization to test room time duration	AccImatizationTimeDur	CDE	2019-02-12	Published
Acoustic Startle Response (ASR) test - acoustic stimuli number	ASRAcousticStimulusNum	CDE	2019-02-12	Awaiting Publication
Acoustic Startle Response (ASR) test - background noise level value	ASRBackgroundNoiseLevVal	CDE	2019-02-12	Awaiting Publication
Acoustic Startle Response (ASR) test - prepulse inhibition percentage	ASRPrepulseInhPercentage	CDE	2019-02-12	Awaiting Publication
Acoustic Startle Response (ASR) test - startle amplitude value	ASRStartleAmplitudeVal	CDE	2024-06-04	Awaiting Publication
Acoustic Startle Response (ASR) test - startle stimulus type	ASRStartleStimulusTyp	CDE	2019-02-12	Awaiting Publication
Acoustic Startle Response (ASR) test - aversive acoustic stimulus used in test type	ASRAcousticStimulusTyp	CDE	2019-02-12	Awaiting Publication

Showing 1 to 25 of 1,870 entries (filtered from 5,156 total entries)

Ownership - this option allows you to expand the search by selecting All DEs, or narrow your search by selecting only Des created by you.

Modified Date – See DE modified within a specified time range.

Status – See DE based on the status they have.

Element Type – See DE based off of Unique or Common DE.

Diseases – Limits the search for DE based off a specific disease it was created for.

Population – Limits DE’s of a specific population. Note that “Preclinical” is represented for DE’s that were created for animals.

Terminology – See DE with the selected terminology source(s).

4.5.7 Downloading Data Element Search Results

To download data element search results, use the big **DOWNLOAD** button. Note that the **DOWNLOAD** button shows the number of DEs found.

It provides the following options:

XML – downloads the list of DEs as an XML file.

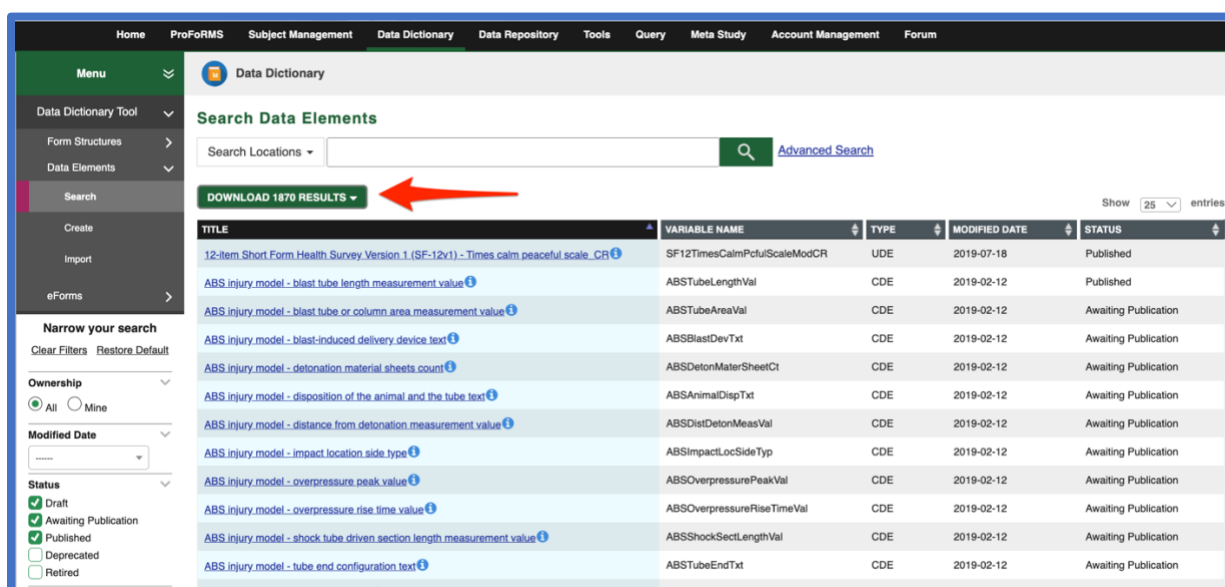
ZIP – downloads the list of DEs as a ZIP file. That is the most used option. The ZIP file has the following name “dataElementDetailExport.zip” contains 2 files:

- “dataElementDetailExport.csv” with a list of all DEs found. That is the file you need to review DE search results.
- “ExternalIDMapping.csv” which contains mapping of DEs to external dictionaries.

REDCap Format (CSV) – provides the option to download search results in REDCap Format.

NOTE:

The REDCap Data Element report guide is in 80% alignment with the REDCap standard. Please note that further refinement of the file is needed to upload correctly into the REDCap system.



Data Dictionary

Search Data Elements

Search Locations [Advanced Search](#)

DOWNLOAD 1870 RESULTS

TITLE	VARIABLE NAME	TYPE	MODIFIED DATE	STATUS
12-item Short Form Health Survey Version 1 (SF-12v1) - Times calm peaceful scale_CR	SF12TimesCalmPctulScaleModCR	UDE	2019-07-18	Published
ABS injury model - blast tube length measurement value	ABSTubeLengthVal	CDE	2019-02-12	Published
ABS injury model - blast tube or column area measurement value	ABSTubeAreaVal	CDE	2019-02-12	Awaiting Publication
ABS injury model - blast-induced delivery device text	ABSBlastDevTxt	CDE	2019-02-12	Awaiting Publication
ABS injury model - detonation material sheets count	ABSDetonMaterSheetCt	CDE	2019-02-12	Awaiting Publication
ABS injury model - disposition of the animal and the tube text	ABSAAnimalDisapTxt	CDE	2019-02-12	Awaiting Publication
ABS injury model - distance from detonation measurement value	ABSDistDetonMeasVal	CDE	2019-02-12	Awaiting Publication
ABS injury model - impact location side type	ABSImpactLocSideTyp	CDE	2019-02-12	Awaiting Publication
ABS injury model - overpressure peak value	ABSOVerpressurePeakVal	CDE	2019-02-12	Awaiting Publication
ABS injury model - overpressure rise time value	ABSOVerpressureRiseTimeVal	CDE	2019-02-12	Awaiting Publication
ABS injury model - shock tube driven section length measurement value	ABSShockSectLengthVal	CDE	2019-02-12	Awaiting Publication
ABS injury model - tube end configuration text	ABSTubeEndTxt	CDE	2019-02-12	Awaiting Publication

4.5.8 Creating/Editing Data Elements

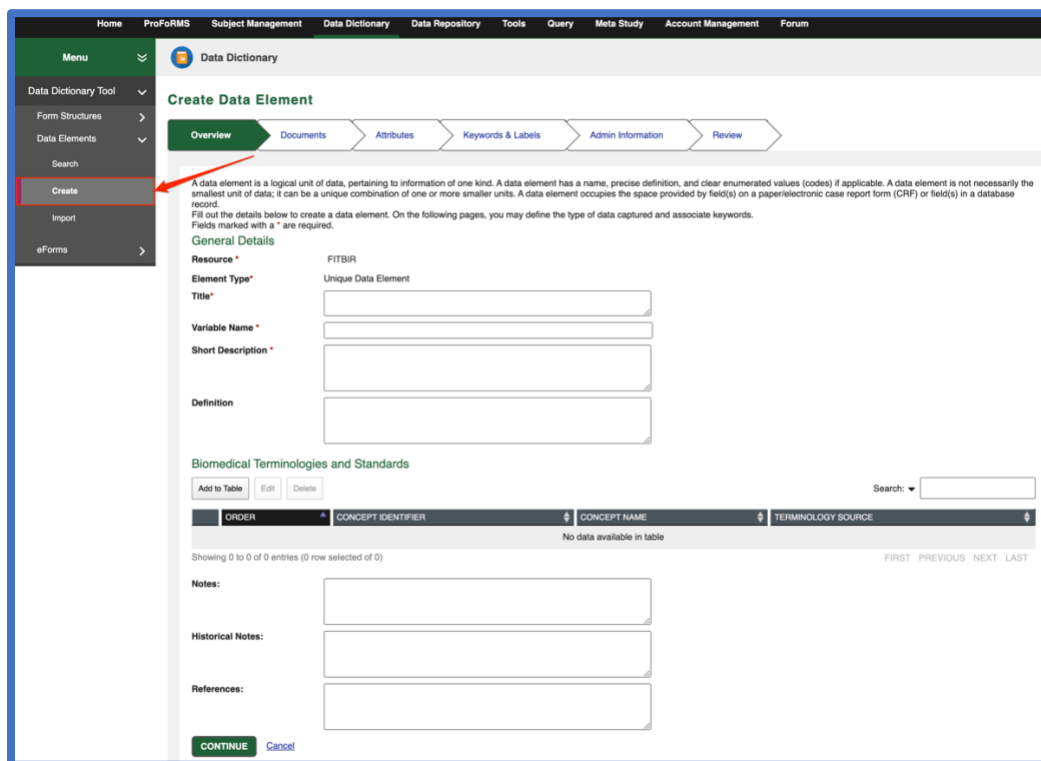
Users of BRICS instance can create data elements (DEs or Unique Data Elements) if there is no Common Data Elements (CDEs) to accommodate users' data. DEs created by the users in the data dictionary have the "Unique Data Element" type. Unique Data Elements (UDEs) (unlike Common data elements) belong to a specific study/dataset (e.g. disease specific, form specific, media/modality specific, etc. UDEs are defined within a dataset to capture very specific data and do not have a life outside of that dataset, or outside of a very specific form (eCRF). To learn more about CDEs and UDEs refer to NINDS CDE project (<https://www.commondataelements.ninds.nih.gov/>)

A single DE can be created through BRICS web interface (refer to [4.5.9](#)). However, when creating multiple data elements, we strongly encourage using DE import template (refer to [4.5.13](#)).

4.5.9 Creating Data Elements

Perform the following actions:

1. Click the Data Dictionary module. The Search Form Structures page appears. In the left menu click Data Elements then select Create from the menu.
2. **Overview:** Fill out the details to create a data element. Fields marked with red asterisk (*) are required (Title, Variable Name, Short Description).



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Menu

- Data Dictionary Tool
 - Form Structures
 - Data Elements
 - Search
 - Create
 - Import
 - eForms

Data Dictionary

Create Data Element

Overview Documents Attributes Keywords & Labels Admin Information Review

A data element is a logical unit of data, pertaining to information of one kind. A data element has a name, precise definition, and clear enumerated values (codes) if applicable. A data element is not necessarily the smallest unit of data; it can be a unique combination of one or more smaller units. A data element occupies the space provided by field(s) on a paper/electronic case report form (CRF) or field(s) in a database record. Fill out the details below to create a data element. On the following pages, you may define the type of data captured and associate keywords. Fields marked with a * are required.

General Details

Resource * FITBIR

Element Type * Unique Data Element

Title *

Variable Name *

Short Description *

Definition

Biomedical Terminologies and Standards

Add to Table Edit Delete Search

ORDER	CONCEPT IDENTIFIER	CONCEPT NAME	TERMINOLOGY SOURCE
No data available in table			

Showing 0 to 0 of 0 entries (0 row selected of 0) FIRST PREVIOUS NEXT LAST

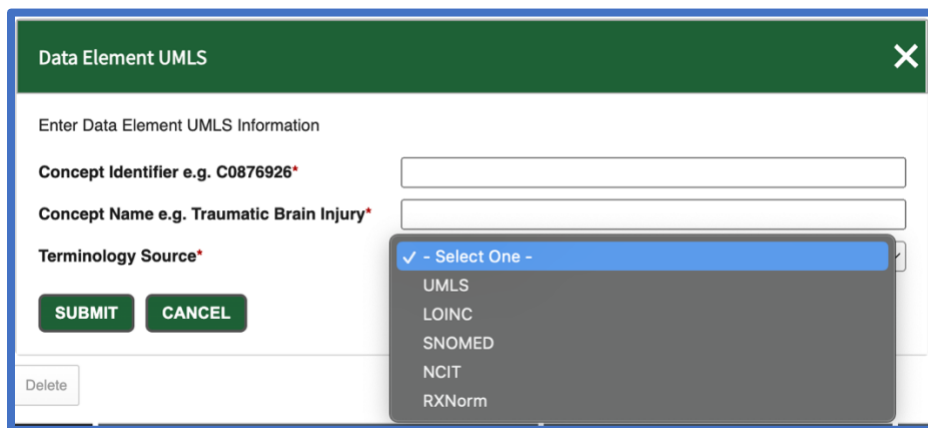
Notes:

Historical Notes:

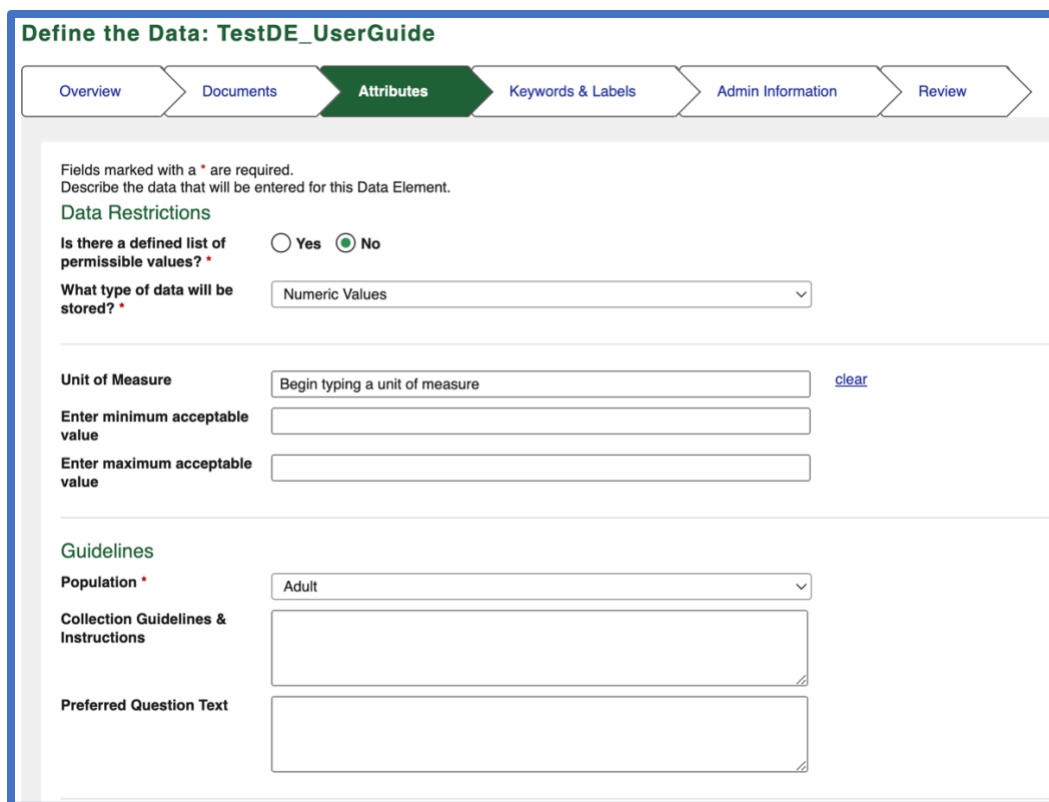
References:

CONTINUE Cancel

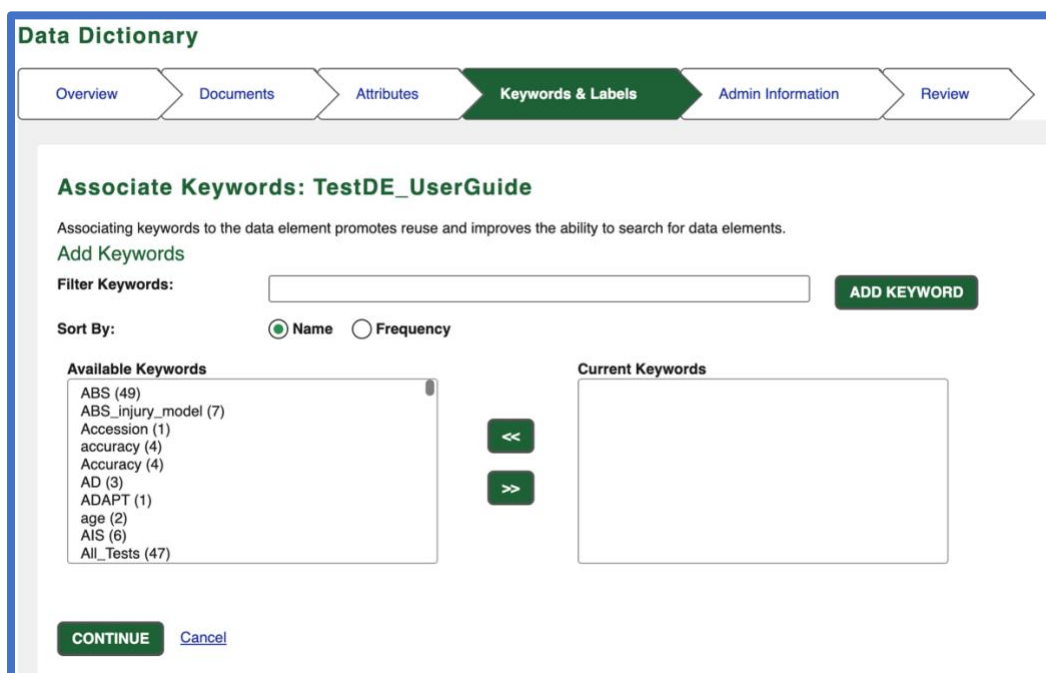
- a. Users may add to the **Biomedical Terminologies and Standards** table by clicking add to table and filling out the relevant information:



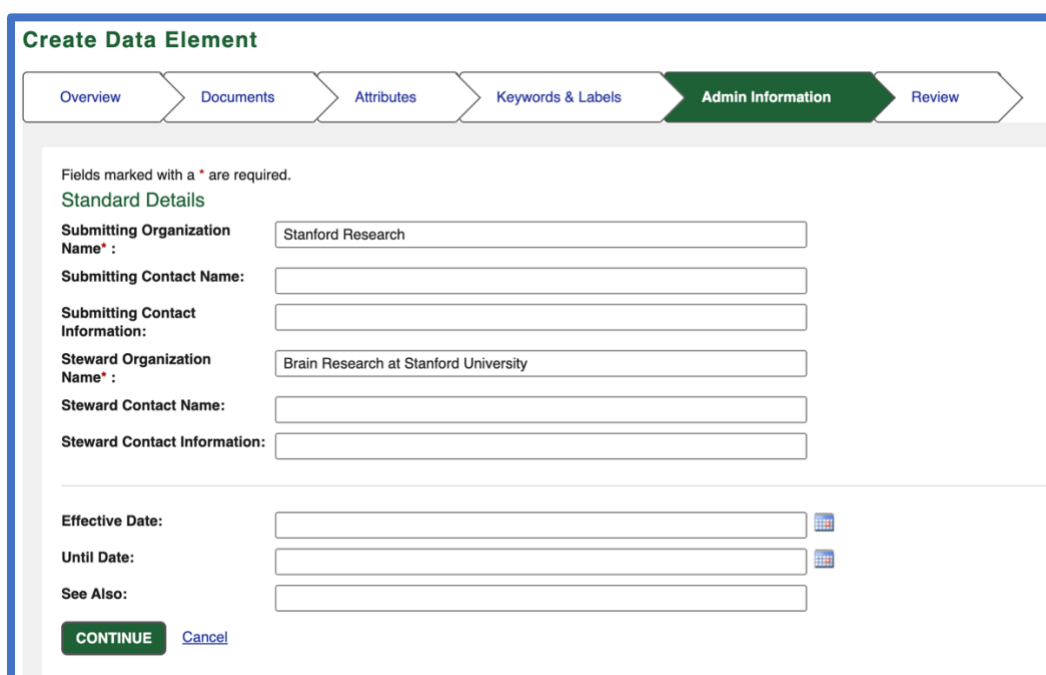
3. **Add Documentation:** Add any supporting documentation and click continue.
4. **Attributes:** In this form, you will be describing the data that will be entered for this Data Element. Fields marked with a * are required (Permissible Value, Population, Use the diseases listed below to refine your search for domains and sub-domains, Data Restrictions). Select a disease domain category.



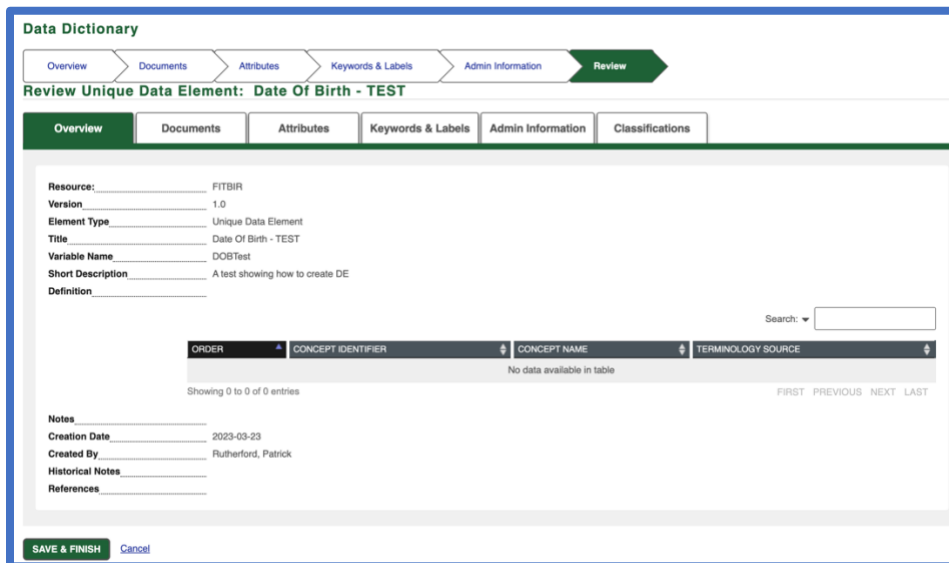
5. **Keywords and Labels:** Here you can associate keywords to the data element. This will help search for the data element in the future. In the “Filter Keywords” textbox, enter your keyword and click the Add Keyword button. Click Continue.



6. **Admin Information:** Here you describe the details of the Data Element. Fields marked with a * are required (Submitting Organization Name, Steward Organization Name). Click the Continue button.



7. **Review:** Review your Unique Data Element details. Click the Save and Finish button.



Data Dictionary

Overview Documents Attributes Keywords & Labels Admin Information **Review**

Review Unique Data Element: Date Of Birth - TEST

Overview Documents Attributes Keywords & Labels Admin Information Classifications

Resource: FITBIR
 Version: 1.0
 Element Type: Unique Data Element
 Title: Date Of Birth - TEST
 Variable Name: DOBTest
 Short Description: A test showing how to create DE
 Definition:

Search:

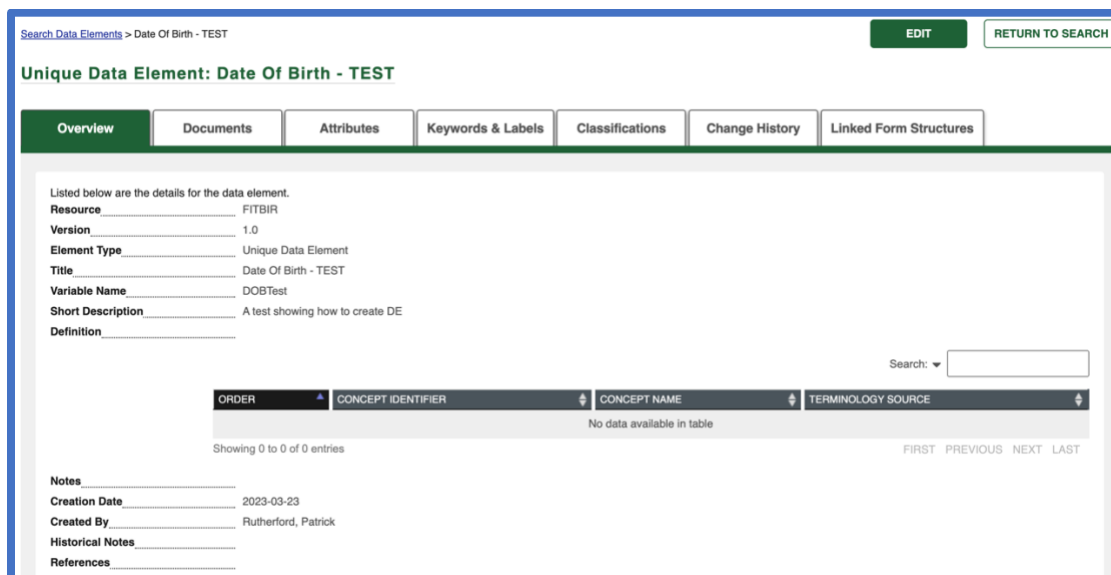
ORDER	CONCEPT IDENTIFIER	CONCEPT NAME	TERMINOLOGY SOURCE
No data available in table			

Showing 0 to 0 of 0 entries FIRST PREVIOUS NEXT LAST

Notes
 Creation Date: 2023-03-23
 Created By: Rutherford, Patrick
 Historical Notes
 References

SAVE & FINISH Cancel

8. **Data Element Confirmation:** The data element will be created, and a confirmation page appears. The data element will be in a DRAFT state until you request for it to be published. Publication of data elements are subject to administrative review and approval. You may choose to publish a data element through two different methods:
- Requesting publication from the data element screen itself, or
 - Published automatically when requesting the publication of a form structure with the draft data element attached.



Search Data Elements > Date Of Birth - TEST **EDIT** RETURN TO SEARCH

Unique Data Element: Date Of Birth - TEST

Overview Documents Attributes Keywords & Labels Classifications Change History Linked Form Structures

Listed below are the details for the data element.
 Resource: FITBIR
 Version: 1.0
 Element Type: Unique Data Element
 Title: Date Of Birth - TEST
 Variable Name: DOBTest
 Short Description: A test showing how to create DE
 Definition:

Search:

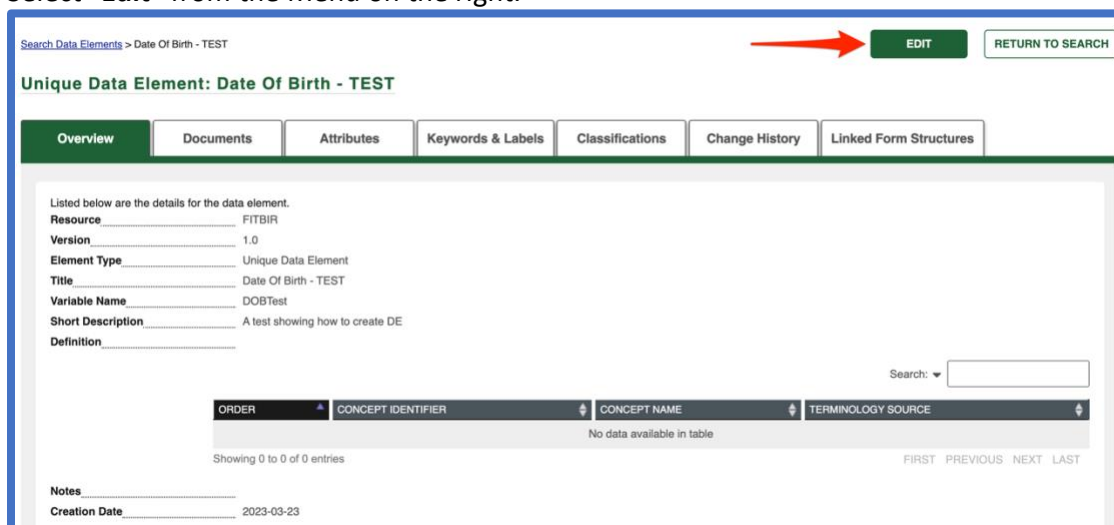
ORDER	CONCEPT IDENTIFIER	CONCEPT NAME	TERMINOLOGY SOURCE
No data available in table			

Showing 0 to 0 of 0 entries FIRST PREVIOUS NEXT LAST

Notes
 Creation Date: 2023-03-23
 Created By: Rutherford, Patrick
 Historical Notes
 References

4.5.10 Edit Data Elements

1. Search for Data Element (refer to [4.5.5](#)) and click on it's name.
2. Select “Edit” from the Menu on the right.



Search Data Elements > Date Of Birth - TEST

Unique Data Element: Date Of Birth - TEST

Overview Documents Attributes Keywords & Labels Classifications Change History Linked Form Structures

Listed below are the details for the data element.

Resource: FITBIR

Version: 1.0

Element Type: Unique Data Element

Title: Date Of Birth - TEST

Variable Name: DOBTTest

Short Description: A test showing how to create DE

Definition:

Search:

ORDER	CONCEPT IDENTIFIER	CONCEPT NAME	TERMINOLOGY SOURCE
No data available in table			

Showing 0 to 0 of 0 entries

Notes:

Creation Date: 2023-03-23

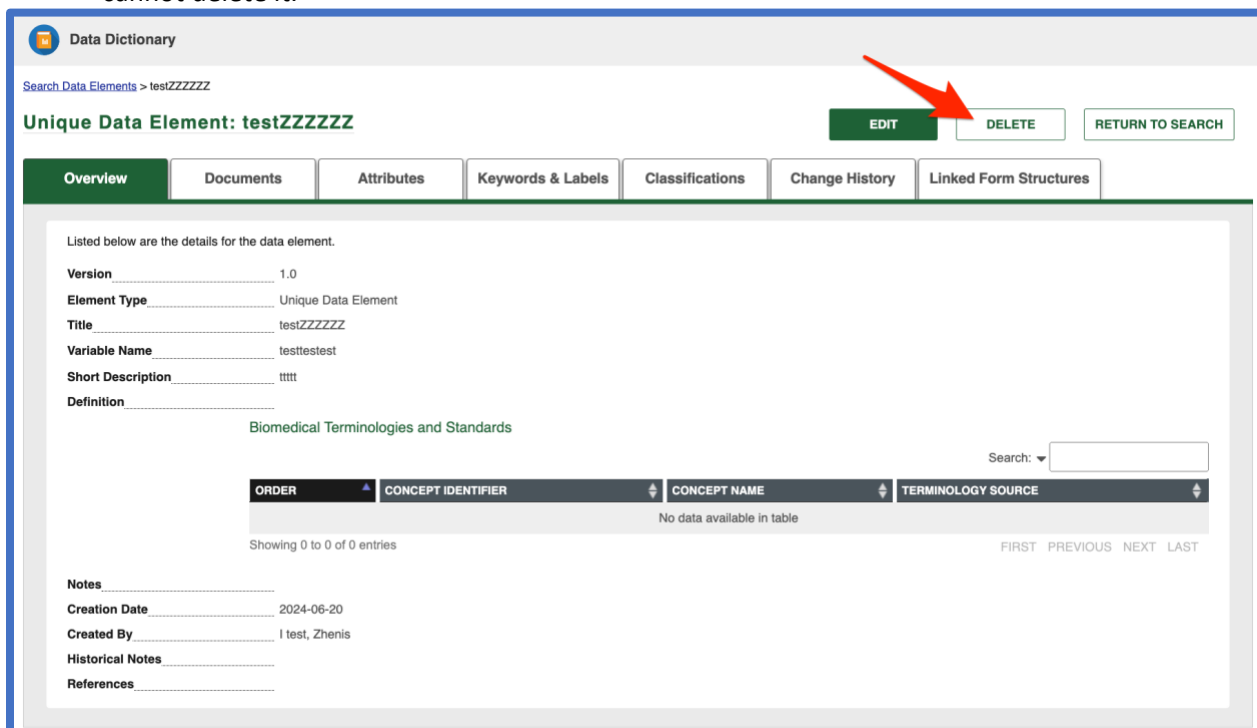
3. Edit the details for your data element. Fields marked with a * are required. Follow the process defined by chevrons. Refer to [4.5.5](#) for more details.

NOTES:

- Only **DRAFT** and **AWAITING PUBLICATION** DEs are fully editable.
- **PUBLISHED** DE's only the following is editable: Title, Definition, Short Description, Guidelines, Notes, Keywords – the fields which comprise minor changes in a DE.
- For **PUBLISHED** DE's the following fields are not editable: Variable Name, Permissible Values, min and max, Unit of Measure.
- **If you need to make changes in the above fields for published DE, please contact your BRICS operations team.**

4.5.11 Delete Data Elements

1. Search for the Data Element. Use Variable Name as a key.
2. Open the DE page.
3. If the DE is available for deletion, the “Delete” link will be available on the right side menu (see picture below). If the “Delete” link is not available, see next page for explanation on why you cannot delete it.



Data Dictionary

Search Data Elements > testZZZZZ

Unique Data Element: testZZZZZ

EDIT **DELETE** **RETURN TO SEARCH**

Overview Documents Attributes Keywords & Labels Classifications Change History Linked Form Structures

Listed below are the details for the data element.

Version 1.0

Element Type Unique Data Element

Title testZZZZZ

Variable Name testtesttest

Short Description ttttt

Definition
Biomedical Terminologies and Standards

Search:

ORDER	CONCEPT IDENTIFIER	CONCEPT NAME	TERMINOLOGY SOURCE
No data available in table			

Showing 0 to 0 of 0 entries

FIRST PREVIOUS NEXT LAST

Notes

Creation Date 2024-06-20

Created By I test, Zhenis

Historical Notes

References

You can only delete a DE which:

1. Does not belong to any form structure. To view the form structures to which a given DE belongs to, open the DE in web interface and look at the “Linked Form Structures” section. It shows all form structures that have the selected DE.
2. Does not have data submitted against it.

NOTES:

- You cannot delete a DE if delete option is not available.
- The delete option will only be available if #1 and #2 from above are true. Because of those limitations, most of the DE’s that can be deleted will be those still in DRAFT status.

4.5.12 Knowledge Graph

The knowledge graph is available for those DEs, for which the DE linking information was added to the See Also column. It is available in the Data Dictionary and in the Query tool.

The knowledge graph shows connections between various DEs based on DE purpose, meaning, data collected.

Not all DEs have the knowledge graph feature available. If a DE has knowledge graph available, the corresponding link appears on the DE page.

Menu

Data Dictionary Tool

Form Structures

Data Elements

Search

Create

Import

eForms

Status: Published

Knowledge Graph

Data Dictionary

Search Data Elements > 12-item Short Form Health Survey Version 1 (SF-12v1) - Times calm peaceful scale_CR

Unique Data Element: 12-item Short Form Health Survey Version 1 (SF-12v1) - Times calm peaceful scale_CR

EDIT

RETURN TO SEARCH

Overview

Documents

Attributes

Keywords & Labels

Classifications

Change History

Linked Form Structures

Listed below are the details for the data element.

Version

1.0

Element Type

Unique Data Element

Title

12-item Short Form Health Survey Version 1 (SF-12v1) - Times calm peaceful scale_CR

Variable Name

SF12TimesCalmPcfuScaleModCR

Short Description

Scale of times feeling calm and peaceful during the past 4 weeks as part of version 1.0 of 12-item Short Form Health Survey (SF-12)

Definition

Scale of times feeling calm and peaceful during the past 4 weeks as part of version 1.0 of 12-item Short Form Health Survey (SF-12)

Biomedical Terminologies and Standards

Search:

ORDER	CONCEPT IDENTIFIER	CONCEPT NAME	TERMINOLOGY SOURCE
No data available in table			

Showing 0 to 0 of 0 entries

FIRST

PREVIOUS

NEXT

LAST

Notes

Creation Date

2018-12-17

Created By

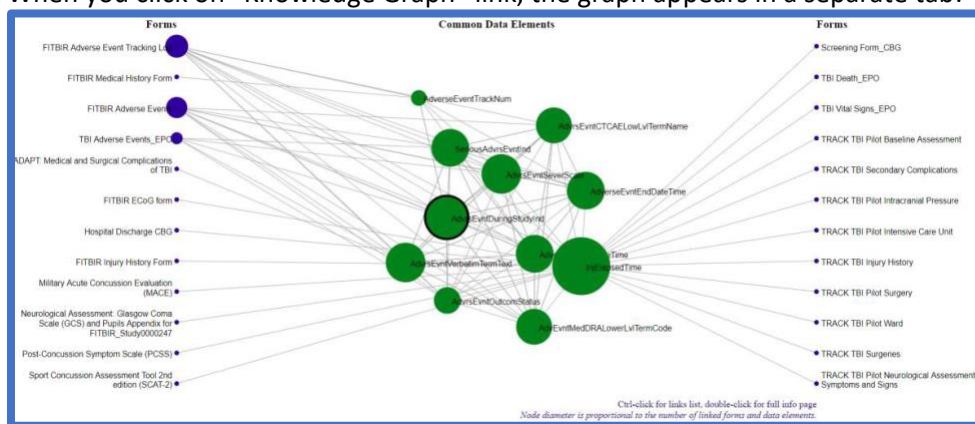
Rodney, Heather

Historical Notes

References

SF-12 Health Survey copyrighted 1994, 2002 by Medical Outcomes Trust and QualityMetric Incorporated (<http://www.outcomes-trust.org/instruments.htm>). All rights Reserved / HOW to scale VERSION 2 OF THE SF-12 HEALTH SURVEY (WITH A SUPPLEMENT ...

When you click on “Knowledge Graph” link, the graph appears in a separate tab:



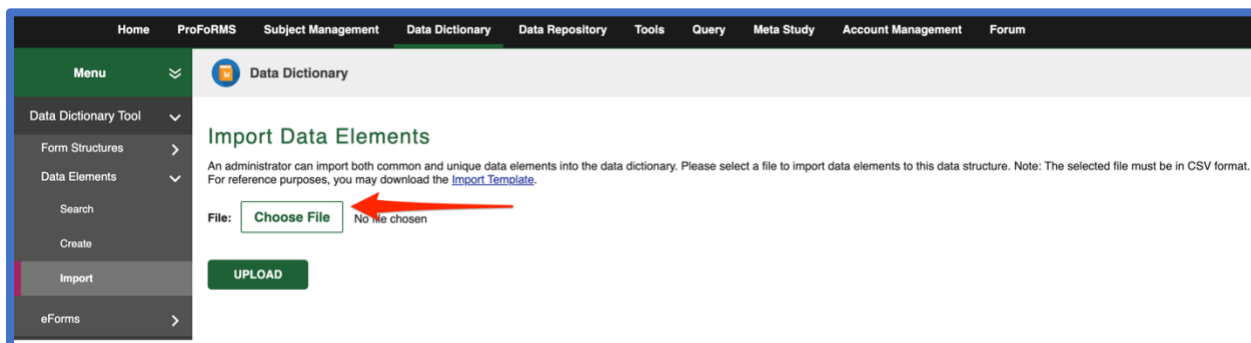
On the knowledge graph, the DE for which the knowledge graph was built is highlighted by a bold border.

It is connected to other DEs, which were listed in "See also" field for the given DE.

On the left and right side of the graph, form structures are listed to which the given DE belongs to.

4.5.13 Importing Multiple DE's

1. Use the Data Element Import Template, which is available as a CSV file via Data Dictionary>Import Data Elements>Import Template link.
 - a. Note (Optional) to save yourself some time, you can contact your BRICS operations team and ask them to provide you with the semi-automatic DE import template, which is a MS Excel macro available file (XLSM).



2. Open the downloaded template in MS Excel. You may populate it with multiple DEs (one per row.)
3. After creating and reviewing DE, when you are satisfied with the result, you may upload DECSV file to the BRICS dictionary by using the Import Data Elements function.
4. The Import Data Elements function performs the validation of submitted data elements to conformance with BRICS rules. If it finds any errors, it provides you with the descriptive error/warning log and does not allow to import the “wrong” DEs into the data dictionary.
5. You must fix the errors first, and then re-upload fixed DEs.

Some tricks of the trade:

- It is a good practice to perform a throughout review of DEs before uploading them into BRICS. Every time you create a new set of DE's, we encourage you that you contact BRICS Operations and ask them to review you set of DE's.
- Before importing data elements into the BRICS dictionary, the import file **MUST BE CONVERTED** to CSV file type!
- You might find in convenient to work on the DEs in MS Excel and save then template as a MS Excel XLS file with color coding and additional columns for comments.
- However, when it is time to upload DEs into BRICS you need to convert it to a CSV file.

The following steps must be done before you can proceed with the Data Elements Import tool:

1. Remove all additional columns you added while working on adding the data elements to the template. These include:
 - a. The column where you calculate the number of characters for the variable Name attribute and
 - b. The column for the Permissible Value Counter macro.
2. Save the file in [CSV](#) format.
3. Run the Data Elements Import tool.

4.5.14 DE's Import Template Explained

All data elements must conform with the DE Import template and to the guidelines in this document or they will not be validated and accepted into the BRICS dictionary. The **Data Element Import template** has 65 columns. Rather a big number. In this section we are going to explain each column and highlight which columns are required and which can be left empty. However, we strongly recommend for the sake of good quality of data elements, to fill out all columns.

Variable Name

1. The unique variable name of the Data Element within the BRICS dictionary.
2. Required for all Data Elements.
3. 30 character maximum.
4. The first character must be an alphabetical character a-z or A-Z.
5. Must contain only alphanumeric characters and the special character underscore (_).
6. Must be camel cased, with the first letter of a word/abbreviation capitalized and all other letters lower case (i.e., Total Score).
7. The Variable Name should match the Title.
8. Example: Title = Total Score, Variable name = Total Score
9. For copyrighted materials, the Variable Name should follow the following format:
 - a. Assessment Acronym + Title.
 - i. Assessment: Buss Perry Aggression Questionnaire (BPAQ)
 - b. Title: Buss Perry Aggression Questionnaire (BPAQ) - provoked hit scale
 - c. Variable Name: BPAQProvokedHitScl10.

Title

1. Title represents the essence of the question through discrete concepts, breaking down the question into "What is the primary topic (Object); what is being asked about the topic (Property); and what is the anticipated response or answer (Representation)." Refer to APPENDIX A: REPRESENTATION TERMS GUIDE for more information.
2. Required for all Data Elements.
3. 255-character maximum.
4. Capitalization – First word is capitalized; all others are lowercase except for proper names.
5. Title should be created as a combination of Object + Property Qualifier(s) + Property + Representation Qualifier (s) + Representation Term.
6. The FIRST word of the Title is the main concept. This first term is the most important conceptual idea for a Data Element (consistent with the Object class term which is the first fundamental part of data element as described by ISO-11179) Suggested words include terms like "diagnosis," "adverse event," "imaging," "injury," "medical history," symptoms," or "treatment." Words like "other" or "initial," that are adjectives/modifiers.
7. Based on ISO-11179 standard for the formulation of metadata, the FINAL word of the Title (DE name) is a representation term and should refer to the data type (e.g., indicator (Boolean), type (alphanumeric), scale 9alphanumeric), score, (numeric) etc.).
8. Titles should be unique. No two Data Elements should have the same.
9. For copyrighted instruments:
 - a. The full name of the form should be the first part of the Data Element name with the acronym in parentheses.

- b. Add a hyphen.
- c. Provide a description of the data/question from the instrument. Example: Berg Balance Scale (BBS) - stand one leg scale.

Element Type

1. A designation of the Data Element as a Common Data Element (CDE) or Unique Data Element (UDE). All DE are first created as Unique Data Element
2. Required for all Data Elements.
3. Designation
4. Must be one of the following:
 - a. Common Data Element
 - b. Unique Data Element

*All Data Elements created outside of NINDS working groups will be designated Unique Data Elements.

Users can ONLY select Unique Data Element in the template.

Definition

1. The Definition should be a clear definition of the question preferably using the concepts in the Title.
2. The representation term, which is the FINAL work in Title, should be the FIRST word in Definition.
3. 4000 character maximum.
4. When a familiar acronym appears in the Data Element Title, the full name MUST be provided in the Definition field to ensure understanding.

Short Description

1. It is a concatenated version of the Definition field that is restricted to 255 characters. Use the Definition field as a starting point and reduce to 255 characters using abbreviations, where applicable.
2. Required for all Data Elements.
3. 255 character maximum

Datatype

1. Datatype determines the type of data this Data Element will store. User can select between alphanumeric, numeric, date or data and time, GUIDs, file, bio sample, thumbnail (image only files).

Input Restriction

1. This field determines the type of input that will be accepted. Free form elements allow for short paragraph answer input, and Pre-Defined Values force the user to select an input from the Permissible Values List.
2. Must be one of the following character strings:
 - a. Free-Form Entry.
 - b. Multiple Pre-Defined Values Selected.
 - c. Single predefined value.

3. If an enumerated list of values contains only numbers (even if PV Descriptions are alphanumeric), the Datatype can be “Numeric Values,” with “Single Pre-Defined Value Selected” and a Minimum and Maximum value entered to define the range of acceptable answers.
4. When a CDE collects a Numeric Value, and there is a unit of measure for routinely capturing the data, add the unit to the column Unit of Measure. Accepted measurement units are provided in Appendix C.
5. If a permissible value of “Other, specify” is contained within an enumerated list for a given data element AND the Data Element is alphanumeric or numeric with an input restriction value of Single Pre-Defined or Multiple Pre-Defined, a corresponding “sister” data element is required to support the capture of the Other, specify information.

Common combinations of Datatype and Input Restrictions

1. For alphanumeric datatype, when input restrictions are set to “Free-Form Entry” then the column “Maximum Character Quantity” must also be also completed. Max=4000characters.
2. For Numeric Values- datatype, when combined with “Free-Form Entry” input restrictions, the Minimum and Maximum values should be also completed.
3. For Date or Date & Time- datatype column Input Restrictions should be Free-Form; for all CDEs collecting Date, the data will be collected using the ISO-8601 standard.
4. For GUID datatype Input Restrictions should only be “Free-Form, Entry”.
5. For File- datatype Input Restrictions should only be “Free-Form Entry”.
6. For Thumbnail- datatype, Input Restrictions should only be “Free- Form Entry”.

Maximum Character Quantity

1. The Maximum Character Quantity field determines the maximum number of characters a user may input into a Free-Form Entry, Alphanumeric Data Element. **Required field** for Data Elements with Datatype: Alphanumeric and Input Restrictions: Free-Form.
2. This field must be blank for other Datatypes or Input Restrictions.
3. This field must contain a numerical value between 1 and 4000. Be sure to set appropriate parameters (i.e., Social Security Number should have a size of 9).
4. Except: Bio-Sample Free-Form Entry, which currently cannot be greater than 100.

Minimum/Maximum Value

1. For a Free-Form, numerical Data Element, a user may specify a range of valid values by inputting a minimum and maximum value.
2. Only input data to these fields for Data Elements with Datatype: Numeric Values and Input Restrictions: Free-Form.
3. These fields must contain numbers.
4. The Minimum Value field must be less than the Maximum Value field.

Biomedical Terminologies and Standards:

1. Concept Identifier
2. Concept Names
3. Terminology Sources

Permissible Values

1. A list of values that can be used as valid input for this Data Element.
2. Required field for Data Elements with Input Restrictions: Multiple Pre-Defined Values Selected or Single Pre-Defined Value Selected.
3. Must contain a semi-colon delimited list of all possible unique permissible values for the data element.
4. element.
5. Maximum 200 characters per one PV
6. No spaces before or after any semi-colon in the list.
7. The data from the PV field should be copied into PV Descriptions (e.g., Yes; No; Unknown) unless specific PV Descriptions have been provided.
8. If a permissible value of “Other, specify” is contained within a Data Element, then anew Data Element must be created to support the other, specify text/data. The BRICS Input Restriction will be “Free- Form Entry” and provide a Size (up to 4000characters, but most frequently limited to 255 characters.).
9. If a permissible value of “Other, specify” is contained within an enumerated list for a given Data Element AND the Data Element is alphanumeric or numeric with an input restriction value of Single Pre-Defined or Multiple Pre-Defined, a corresponding “sister” data element is required to support the capture of the Other, specify information.

To create “Other, specify” sister DE for a corresponding DE with the list of permissible values:

1. Create a corresponding Data Element with an input restriction of “Free-Form Entry” to accept the free-form entry information. This Data Element will complement the “sister/parent” data element (that has an enumerated permissible value list that includes ‘Other, specify’).
2. Variable Name: Copy parent CDE/UDE and change name to end with OTH.Ex. TherapuRehabSessDur (parent); TherpauRehabSessDurOTH(corresponding Data Element).
3. Title: Copy parent Title and add “other text” at the end of the title Ex. Therapyrehabilitation session duration (parent); Therapy rehabilitation session duration other text. Definition: Provide definition of element. Ex. The free-text field related to the duration of a therapeutic rehabilitation session, specifying other text.
4. Set Maximum Character Quantity to 4000 max characters.
5. Input Restrictions: to Free-Form Entry.

Permissible Value Descriptions

1. A list of descriptions that matches with the list of permissible values above.
2. Mandatory field for Data Elements with Input Restrictions: Multiple Pre-Defined Values Selected or Single Pre-Defined Value Selected.
3. Must contain a semi-colon delimited list of permissible value descriptions. The semi-colon character cannot be used in descriptions.
4. No spaces should before or after any semi-colon in the list.
5. 5.The Permissible Value Descriptions list must have the same number of descriptions as there are Permissible Values in the Permissible Value list.
6. 6.The descriptions must match the order of the permissible value.
7. 7.When PVs are a numeric scale or scoring system (e.g., 1;2;3;4;5) and the PV Descriptions include text reporting the meaning of values, the PV Descriptions should be provided. Where no specific meaning is given for some values in the range, additional semicolons may be needed to skip undefined values (e.g., on a scale of 1 to 10where 1=Never and 10=All the time, then the PV

Description would show Never all the time.

Permissible Value Output Codes

1. A list of numeric codes, corresponding to the list of permissible values.
2. Mandatory field for Data Elements with Input Restrictions: Multiple Pre-Defined Values Selected or Single Pre-Defined Value Selected.
3. Must contain a semi-colon delimited list of permissible value output unique codes.
4. No spaces should be before or after any semi-colon in the list.

Population.All

1. The target population group for this data element
2. Required for all data elements.
3. Must be one of the following character strings:
 - a. Adult
 - b. Pediatric
 - c. Adult; Pediatric
 - d. Preclinical – for animal studies

Unit of Measure

1. For any entry type that must be recorded as a specific unit of measurement, a measurement unit should be provided.
2. Only one measurement unit can be entered this column for each Data Element.
3. When a Data Element collects a Numeric Value or Alphanumeric, and there is a unit of measure for routinely capturing the data, add the units to the column Unit of Measurement.

Guidelines/Instructions

1. A required field for including information about administration or other details that may be pertinent.
2. Contains any information useful for data collection and properly gathering input for this Data Element.
3. 4000 character maximum
4. If this column includes a comment that refers to another CDE, make sure the CDE Title is given, not text like “question b” from the form on which they appear. Reference the CDE, not the form question.

Notes

1. Any additional notes you would like others to be able to see when the element is published.
2. Any extra notes or messages related to this Data Element may be placed here.
3. 4000 character maximum.
4. If notes pertain to a specific disease type, be sure to indicate to which disease type the note refers.
5. For DEs which belong to a standardized instrument (CRF) we recommend that you include question number in Notes.
6. If the DE was imported from another dictionary, we recommend that you include that dictionary information in Notes.

Preferred Question Text

1. May contain one or more suggested questions a researcher may ask a patient or subject to get the proper input for this Data Element.
2. 4000 character maximum.
3. For a copyrighted instrument, the Question Text **MUST** match the instrument exactly. Orit should be left blank if the instrument publisher insists of not providing the question text.
4. For all other forms, this field should contain the question(s) shown on the CRF, but it must be meaningful content (e.g., not “if yes, specify”). Where needed, the form should be updated to show new Question Text.

Keywords

1. A list of keywords associated with this Data Element. Examples include assessment name, study title, battery name, etc. Whatever makes search for a given DE meaningful and easy.
2. 55 character maximum
3. Must begin with an alphabet character.
4. List of keywords must be in a semi-colon delimited list.
5. Keywords cannot have a space, but an underscore can be used instead (i.e., Head Injury).

References

1. A required field to provide references to the sources which were used to create a given DE
2. For copyrighted instruments must contain the copyright information and a link to the publisher.
3. 4000 character maximum.
4. If references are disease specific, be sure to indicate to which disease-type they pertain to.

Historical Notes

1. Background information about the data element.
2. 4000 characters maximum.

See Also

1. Contain a list of Variable names, divided by semicolon, of the data element which are related to a given data element.
2. The information in this field is used to populate Knowledge Graph.
3. 4000 characters maximum.

Effective Date

1. Identifies the date that an item became or will become available.
2. ISO Format: YYYY-MM-DD

Until Date

1. Identifies the date that an item is or will no longer be effective.
2. ISO Format: YYYY-MM-DD

Submitting Organization Name

1. The team, organization or unit within an organization that has submitted a given data element into the data dictionary. This information is important, because it allows to direct questions related to the DE to the team who created it.
2. It also gives a credit to the team who contributed DEs to the BRICS data dictionary.
3. Required for all Data Elements.

4. 255 characters maximum.

Steward Organization Name

1. The organization that maintains the data dictionary and provides the quality control for its data elements. For the BRICS data dictionary, Steward Organization is NIH/CIT/BRICS.
2. Required for all Data Elements.
3. 255 characters maximum.

Domain and Classification info (columns Y to BG) Domain/Sub-domain

1. The Domain (and Sub-Domain) of a Data Element defines the use of the DE within a given project, disease category, study domain. More information can be found on the NINDS CDE project site - <https://www.commondataelements.ninds.nih.gov/>
2. Required for all Data Elements.
3. For a list of valid Domains and Sub-Domains used in BRICS and relevant to your project, please contact BRICS Operations team.

Format:

1. Input must be in Domain.Sub-Domain format. For example, under the column heading Domain.Stroke, the value entered could be Outcomes and End Points.Quality of Life.
2. Note: Each Domain has one or more sub-domains.
3. A data element can have one or more Domain.SubDomain(s) per disease. If there is more than one Domain.SubDomain, please use a semi colon delimited list.

Classification

1. The classification of a given disease category. More at <https://www.commondataelements.ninds.nih.gov/glossary>
2. There are 4 classification categories designated for NINDS data elements: Core, Basic, Supplemental, Exploratory. Where Core DEs is data element that collects essential information applicable to any study, including either those which span across all disease and therapeutic areas or those that are specific to one disease area.
3. A classification is required for every disease category where a Domain. Subdomain is listed.
4. There can only be one Classification per disease (or sub-disease if present).
5. For all Unique Data Elements, the classification will ALWAYS be Supplemental.

4.5.15 Representation Terms Guide

Representation Term	NINDS Data Type	Definition	Abbreviation for Variable Name
Anatomic Site	Alphanumeric	the named location of, or within, the body of a living being	AnatSite
Category	Alphanumeric	the descriptive identification representing a level of intensity, defined meaning, or subjective measurement	Cat
Code	Alphanumeric OR Numeric Values	the selection from a system of defined categories for representation of data, often defined using stratification or hierarchical organization; data may have either a numeric or alphanumeric system assigned for coding	Code
Count	Numeric Values	the quantity of the specified item	Ct
Date	Date or Date & Time	the date on which an event was observed or occurred	Date
Date/Time	Date or Date & Time	the date and time when an event was observed or occurred	DateTime
Dose	Numeric Values	the quantity of an agent (such as drug, substance or energy) administered, taken, or absorbed at one time	Dose
Duration	Numeric Values	the value measuring a quantity or	Dur

		period of time during which an event or observation occurs	
Frequency	Numeric Values	the number of occurrences counted for an event within a given time period	Freq
Grade	Alphanumeric OR Numeric Values	the position on a scale of intensity or amount or quality, of or relating to histology; data may have either a numeric or	Grade
Indicator	Alphanumeric	the response for yes/no/unknown/NA)	Ind
Integer	Numeric Values	a concept of quantity using only whole numbers greater than zero	Intg
Interval	Numeric Values	the period of time or the distance separating occurrences	Intrvl
Location	Alphanumeric	the field to describe the geographic area (not anatomic)	Loc
Measurement	Numeric Values	the size or magnitude of the specified item	Measr
Name	Alphanumeric	the words or language units by which an object is known	Name
Number	Numeric Values	a concept of quantity derived from zero and units or a numeral or string of numerals used for identification	Num
Range	Numeric Values	the value chosen from the limits or scale of variation for an event or the difference between the lowest and	Rng

		highest numerical values	
Rate	Alphanumeric OR Numeric Values	the measurement of degree, speed, or frequency relative to time with regard to an observation or event; data may be a numeric quantity or may be reported by enumerated values with grouped ranges of values	Rt
Reason	Alphanumeric	the explanation of the cause of some phenomenon or action	Rsn
Scale	Numeric Values	Represents the position in a range of numeric values for level of intensity	Scl
Score	Numeric Values	Used in calculation for the position in a range of numeric values representing level of intensity,	Score
		defined meaning or subjective measurement	
Site	Alphanumeric	the field to describe the area (not anatomic)	Site
Source	Alphanumeric	the text describing where something is available or referenced	Source
Status	Alphanumeric	the condition or state at a particular time	Stat or Status
Text	Alphanumeric	the undefined field to capture descriptive information related to an item	Txt

Time	Date or Date & Time	the time at which an event was observed or occurred	Time
Type	Alphanumeric	the enumerate descriptive information to identify an item	Typ
Unit of Measure	Alphanumeric	the name of a reference standard used for measurement when determining a quantity	UoM
Value	Numeric Values	the numeric quantity measured, assigned or computed	Val