Package 'sdtm.terminology'

April 7, 2025

Title CDISC SDTM Controlled Terminology

Version 2025-3-25

Description Clinical Data Interchange Standards Consortium (CDISC) Standard Data Tabulation Model (SDTM) controlled terminology, 2025-03-25. Source: https://evs.nci.nih.gov/ftp1/CDISC/SDTM/>.

License Apache License (>= 2)

Encoding UTF-8

RoxygenNote 7.3.2

Depends R (>= 4.1.0)

Imports dplyr, tibble

URL https://github.com/patterninstitute/sdtm.terminology,

https://www.pattern.institute/sdtm.terminology/

BugReports https://github.com/patterninstitute/sdtm.terminology/issues

Config/Needs/website patterninstitute/chic

NeedsCompilation no

Author Ramiro Magno [aut, cre] (<https://orcid.org/0000-0001-5226-3441>), Pattern Institute [cph, fnd]

Maintainer Ramiro Magno <rmagno@pattern.institute>

Repository CRAN

Date/Publication 2025-04-07 16:30:01 UTC

Contents

it_code_to_term	2
t_term_to_code	3
de_to_term	3
	4
_release	6
<u>t</u> erm	6
atch_code_list_from_term	7
m_to_code	8

2

10

clst_code_to_term SDTM codelist code to respective term

Description

clst_code_to_term() maps SDTM terminology codelists' C-codes to respective terms. For mapping codes other than those representing codelists, use code_to_term() instead.

Usage

clst_code_to_term(code)

Arguments

code

A C-code with a leading character C followed by a sequence of digits used for uniquely identifying each SDTM terminology codelist.

Value

A character vector of SDTM terms for codelists. The number of elements returned matches the number of elements in code, i.e. there is a one-to-one correspondence between input and output. Invalid codes in code are mapped to NA.

See Also

See clst_term_to_code() for the inverse operation.

Examples

```
clst_code_to_term(code = "C66731")
# `code` is vectorized.
clst_code_to_term(code = c("C66731", "C66733"))
# Invalid codes (e.g. `"C007"`) map to `NA`.
clst_code_to_term(code = c("C66731", "C66733", "C007"))
```

clst_term_to_code SDTM code list term to respective code

Description

clst_term_to_code() maps SDTM terminology codelists' terms to respective C-codes. For mapping terms other than those representing codelists, use term_to_code() instead.

Usage

clst_term_to_code(term)

Arguments

term

A SDTM controlled terminology term referring to a codelist.

Value

A character vector of SDTM codes for codelists. The number of elements returned matches the number of elements in term, i.e. there is a one-to-one correspondence between input and output. Invalid codes in term are mapped to NA.

See Also

See clst_code_to_term() for the inverse operation.

Examples

```
clst_term_to_code(term = "SEX")
# `term` is vectorized.
clst_term_to_code(term = c("SEX", "SIZE"))
# Invalid codes (e.g. `"YODA"`) map to `NA`.
clst_term_to_code(term = c("SEX", "SIZE", "YODA"))
```

code_to_term SDTM code to term

Description

code_to_term() maps SDTM terminology C-codes to respective terms. For mapping codes representing codelists, use clst_code_to_term() instead.

Usage

```
code_to_term(code, clst_code)
```

Arguments

code	A C-code with a leading character C followed by a sequence of digits used
	for uniquely identifying each concept in NCI Thesaurus (NCIt), including all
	CDISC concepts.
clst_code	Parent codelist code.

Value

A character vector of SDTM controlled terminology terms. The number of elements returned matches the number of elements in code, i.e. there is a one-to-one correspondence between input and output. Invalid codes in code are mapped to NA.

See Also

See term_to_code() for the inverse operation.

Examples

```
code_to_term(code = "C174106", clst_code = "C141657")
# Both `code` and `clst_code` are vectorized. `clst_code` will be recycled
# to match `code` number of elements.
code_to_term(code = c("C174106", "C141700"), clst_code = "C141657")
# You may mix codelists as long as `code` and `clst_code` have the same
# number of elements; they will be matched element-wise.
code_to_term(
   code = c("C174106", "C141700", "C141701"),
   clst_code = c("C141657", "C141657", "C141656")
)
# Invalid codes (e.g. `"C00000"`) map to `NA`.
code_to_term(code = c("C174106", "C141700", "C00000"), clst_code = "C141657")
```

Retrieve	CDISC	SDTM	Controlled	Terminol	logy
----------	-------	------	------------	----------	------

Description

ct

Returns a tibble of CDISC SDTM controlled terminology, optionally filtered to include only termlevel entries, only code list definitions, or both.

Usage

ct(subset = c("term", "list", "all"))

Arguments

subset One of "term", "list", or "all" to specify which part of the terminology to return.

Value

A tibble containing the requested subset of CDISC controlled terminology:

- **clst_code** C-code of the code list that the term belongs to. Identifies the parent code list concept (e.g., C66742 for Yes/No/Unknown).
- **is_clst** Logical indicator: TRUE if the row represents a code list definition; FALSE if it represents a term within a code list.
- **code** C-code of the concept (either a term or a code list). Each term and list has a unique NCI Thesaurus concept code (e.g., C49487 for "Yes").
- **term** Submission value or label for the term (e.g., "Y", "TENMW1-Was Walk/Run Performed"). For code list rows, this may be the list name.
- ext Extensibility of the code list (TRUE, FALSE, or NA). NA for term-level rows.
- name Name of the code list or term category (e.g., "Yes/No/Unknown Response" or "10-Meter Walk/Run Functional Test Test Code").
- syn Synonyms or alternative names for the term, often used in CRF annotations or mappings.
- def Definition or description of the term or code list, taken from the NCI Thesaurus.
- nci Preferred label from the NCI Thesaurus; usually a short human-readable label for the concept.

Version

Controlled terminology data comes from the release dated 2025-03-25.

Source

https://evs.nci.nih.gov/ftp1/CDISC/SDTM/SDTM%20Terminology.txt

Examples

```
# Return only the terms
ct("term")
# Return only the code lists
ct("list")
# Return the full terminology (code lists and individual terms)
ct("all")
```

5

ct_release

Description

SDTM terminology release date.

Usage

ct_release()

Value

A Date object.

Examples

ct_release()

is_term

Is a code or term in a code list?

Description

is_code() and is_term() evaluate whether query codes or terms are part of the SDTM controlled terminology within the context of a code list.

Usage

```
is_term(term, clst_code)
```

is_code(code, clst_code)

Arguments

term	A character vector of terms (e.g. "TENMW102").
clst_code	A character vector of codes referring to SDTM terminology codelists (e.g. "C141657").
code	A character vector of C-codes (e.g. "C174106").

Value

A logical vector, where TRUE indicates that term is a controlled terminology term within the clst_code provided, and FALSE, otherwise.

Examples

```
is_term(term = "TENMW101", clst_code = "C141657")
# Note that the clst_code term itself (`"TENMW1TC"`) is not part of its own
# code list (`"C141657"`).
is_term(term = "TENMW1TC", clst_code = "C141657")
# `is_term()` is vectorized over `term` and `clst_code`
is_term(term = c("TENMW101", "TENMW104"), clst_code = "C141657")
is_code(code = "C174106", clst_code = "C141657")
# Note that the code list code itself (`"C141657"`) is not part of its own
# code list (`"C141657"`).
is_code(code = "C174106", clst_code = "C141657")
# `is_code(code = "C141657", clst_code = "C141657")
# `is_code(code = "C141657", clst_code = "C141657")
# `is_code(code = "C141657", clst_code = "C141657")
```

match_code_list_from_term

Match code lists

Description

match_code_list_from_term() takes terms as queries to look for associated code lists.

match_code_list_from_code() does the same starting from C-codes.

Note that both mappings are potentially one to many as the same code or term may associate with more than one code list.

Usage

match_code_list_from_term(term)

match_code_list_from_code(code)

Arguments

term	A character vector of SDTM terminology terms.
code	A character vector of SDTM terminology C-codes.

Value

A tibble with at least as many rows as there are elements in term, but potentially more because of one-to-many mappings. The returned tibble comprises three columns:

code An SDTM terminology code (e.g. "C141701").

```
term An SDTM terminology term (e.g. "TENMW104").
```

clst_code The code of the associated code list.

Examples

```
# Find code lists where "DNA" and "RNA" are used.
match_code_list_from_term(c("DNA", "RNA"))
# Find code lists where "Yes"/"No" terms are controlled vocabulary.
match_code_list_from_term(c("Yes", "No"))
# C163560 is found in code list C71620.
match_code_list_from_code("C163560")
# C25613 however is mapped to many code lists.
match_code_list_from_code("C25613")
# Unmappable codes or terms map to `NA`.
match_code_list_from_code("Yoda")
match_code_list_from_term("R2D2")
# Codes for code lists are for all intents and purposes not mappable to
# parent code lists.
match_code_list_from_code(code = "C141657")
```

term_to_code SDTM term to code

Description

term_to_code() maps SDTM terminology terms to respective C-codes. For mapping terms referring to codelists, use clst_term_to_code() instead.

Usage

```
term_to_code(term, clst_code)
```

Arguments

term	A SDTM controlled terminology term (as expected in submissions).
clst_code	Parent codelist code.

Value

A character vector of SDTM controlled terminology C-codes. The number of elements returned matches the number of elements in term, i.e. there is a one-to-one correspondence between input and output. Invalid codes in term are mapped to NA.

term_to_code

See Also

See code_to_term() for the inverse operation.

Examples

```
term_to_code(term = "TENMW101", clst_code = "C141657")
# Both `term` and `clst_code` are vectorized. `clst_code` will be recycled
# to match `term` number of elements.
term_to_code(term = c("TENMW101", "TENMW102"), clst_code = "C141657")
# You may mix codelists as long as `term` and `clst_code` have the same
# number of elements; they will be matched element-wise.
term_to_code(
    term = c("TENMW101", "TENMW102", "TENMW1-Test Grade"),
    clst_code = c("C141657", "C141657", "C141656")
)
# Invalid terms (e.g. `"Gambelas"`) map to `NA`.
term_to_code(term = c("TENMW101", "TENMW102", "Gambelas"), clst_code = "C141657")
```

Index

tibble, 4, 5, 7

```
\texttt{clst\_code\_to\_term, 2}
clst_code_to_term(), 2, 3
clst_term_to_code, 3
clst_term_to_code(), 2, 3, 8
code_to_term, 3
code_to_term(), 2, 3, 9
ct, 4
ct_release, 6
Date, 6
is_code (is_term), 6
is_code(), 6
is_term, 6
is_term(), 6
match_code_list_from_code
        (match_code_list_from_term), 7
match_code_list_from_code(), 7
match_code_list_from_term, 7
match_code_list_from_term(), 7
term_to_code, 8
term_to_code(), 3, 4, 8
```