

Package: icdhelper (via r-universe)

May 28, 2026

Title Simple 'ICD-10' Code Descriptions

Version 0.1.2

Description Provides utilities to retrieve and manage 'ICD-10' code descriptions from 'Excel' files. Supports vectors, data frame columns, and association rule outputs (e.g., 'arules' objects) that require mapping to 'ICD-10' descriptions. Designed to simplify processing of healthcare datasets.

License MIT + file LICENSE

Encoding UTF-8

Imports readxl, arules, utils

RoxygenNote 7.3.3

NeedsCompilation no

Author Nisha Sheshashayee [aut, cre]

Maintainer Nisha Sheshashayee <sheshana@mail.uc.edu>

Repository <https://nishasheshashayee.r-universe.dev>

Date/Publication 2026-05-27 09:40:02 UTC

RemoteUrl <https://github.com/cran/icdhelper>

RemoteRef HEAD

RemoteSha eb2ec9968b9756b8fcf2dfd24315f6b20a6a8858

Contents

add_icd_desc	2
add_icd_desc_any	2
add_icd_desc_df	3
add_proc_desc_any	3
add_proc_desc_df	4
add_rule_desc	5
icd_desc	5
load_icd_dictionary	6
load_proc_dictionary	6

proc_desc	7
proc_rules_with_desc	7
rules_with_desc	8

Index	9
--------------	----------

add_icd_desc	<i>Add ICD-10 descriptions to a data frame</i>
--------------	--

Description

Add ICD-10 descriptions to a data frame

Usage

```
add_icd_desc(df, code_col = "code")
```

Arguments

df	A data frame containing ICD codes.
code_col	Column name with ICD codes.

Value

The input data frame with a new ICD_desc column.

Examples

```
df <- data.frame(code = c("A00", "B01"))
add_icd_desc(df)
```

add_icd_desc_any	<i>Add ICD-10 descriptions to a vector of codes</i>
------------------	---

Description

Add ICD-10 descriptions to a vector of codes

Usage

```
add_icd_desc_any(x)
```

Arguments

x	A character vector of ICD codes.
---	----------------------------------

Value

A character vector of descriptions.

Examples

```
add_icd_desc_any(c("A00", "B01"))
```

add_icd_desc_df	<i>Add ICD descriptions next to code column</i>
-----------------	---

Description

Takes a data frame with a code column and inserts a description column immediately after it.

Usage

```
add_icd_desc_df(df, code_col = "code", desc_col = "desc")
```

Arguments

df	A data frame.
code_col	Column name containing ICD codes.
desc_col	Name of the new description column.

Value

The input data frame with description column inserted after code_col.

Examples

```
df <- data.frame(code = c("A00", "B01"))
add_icd_desc_df(df)
```

add_proc_desc_any	<i>Add procedure descriptions to a vector of codes</i>
-------------------	--

Description

Add procedure descriptions to a vector of codes

Usage

```
add_proc_desc_any(x)
```

Arguments

x A character vector of procedure codes.

Value

A character vector of descriptions.

Examples

```
add_proc_desc_any(c("001", "002"))
```

add_proc_desc_df *Add ICD-10-PCS descriptions to a data frame*

Description

Takes a data frame with a procedure code column and inserts a description column immediately after it.

Usage

```
add_proc_desc_df(df, proc_col = "proc", desc_col = "desc")
```

Arguments

df A data frame.
proc_col Column name containing procedure codes.
desc_col Name of the new description column.

Value

The input data frame with description column inserted after proc_col.

Examples

```
df <- data.frame(proc = c("001", "002"))  
add_proc_desc_df(df)
```

add_rule_desc	<i>Add descriptions to rule table codes</i>
---------------	---

Description

Add descriptions to rule table codes

Usage

```
add_rule_desc(rules_df)
```

Arguments

rules_df A data frame with LHS and RHS columns.

Value

The same data frame with LHS_desc and RHS_desc added.

Examples

```
df <- data.frame(  
  LHS = c("{A00}", "{B01}"),  
  RHS = c("{C02}", "{D03}")  
)  
add_rule_desc(df)
```

icd_desc	<i>Get ICD-10 description for a code</i>
----------	--

Description

Looks up the description for one or more ICD-10 codes using the package dictionary.

Usage

```
icd_desc(code)
```

Arguments

code ICD-10 code(s), quoted or unquoted.

Value

A character vector of descriptions (NA if not found).

Examples

```
icd_desc("I10")  
icd_desc(c("I10", "E11"))
```

load_icd_dictionary *Load ICD-10 dictionary*

Description

Reads the ICD-10 code dictionary bundled inside the package.

Usage

```
load_icd_dictionary()
```

Value

A data frame with ICD-10 codes and descriptions.

References

World Health Organization (WHO) (2019). International Classification of Diseases (ICD-10). <https://www.who.int/standards/classifications/classification-of-diseases>

Examples

```
load_icd_dictionary()
```

load_proc_dictionary *Load ICD-10-PCS procedure dictionary*

Description

Reads the procedure code dictionary bundled inside the package.

Usage

```
load_proc_dictionary()
```

Value

A data frame with procedure codes and descriptions.

References

World Health Organization (WHO) (2019). International Classification of Diseases (ICD-10-PCS).
<https://www.who.int/standards/classifications/classification-of-diseases>

Examples

```
load_proc_dictionary()
```

proc_desc	<i>Get ICD-10-PCS description for a procedure code</i>
-----------	--

Description

Looks up the description for one or more ICD-10-PCS procedure codes using the package procedure dictionary.

Usage

```
proc_desc(code)
```

Arguments

code	Procedure code(s)
------	-------------------

Value

A character vector of descriptions (NA if not found)

Examples

```
proc_desc("001")  
proc_desc(c("001", "002"))
```

proc_rules_with_desc	<i>Add procedure descriptions to association rules</i>
----------------------	--

Description

Add procedure descriptions to association rules

Usage

```
proc_rules_with_desc(rules)
```

Arguments

rules An object of class rules from 'arules'.

Value

A data.frame with descriptions placed next to lhs and rhs.

Examples

```
library(arules)
data("Adult")
rules <- apriori(Adult, parameter = list(supp = 0.5, conf = 0.9, maxlen = 2))
proc_rules_with_desc(rules)
```

rules_with_desc	<i>Add ICD descriptions to association rules</i>
-----------------	--

Description

Add ICD descriptions to association rules

Usage

```
rules_with_desc(rules)
```

Arguments

rules An object of class rules from 'arules'.

Value

A data.frame with descriptions placed next to lhs and rhs.

Examples

```
library(arules)
data("Adult")
rules <- apriori(Adult, parameter = list(supp = 0.5, conf = 0.9, maxlen = 2))
rules_with_desc(rules)
```

Index

add_icd_desc, [2](#)
add_icd_desc_any, [2](#)
add_icd_desc_df, [3](#)
add_proc_desc_any, [3](#)
add_proc_desc_df, [4](#)
add_rule_desc, [5](#)

icd_desc, [5](#)

load_icd_dictionary, [6](#)
load_proc_dictionary, [6](#)

proc_desc, [7](#)
proc_rules_with_desc, [7](#)

rules_with_desc, [8](#)