Package 'eq5d'

September 5, 2024

Type Package

```
Title Methods for Analysing 'EQ-5D' Data and Calculating 'EQ-5D' Index
Version 0.15.4
Description EQ-5D is a popular health related quality of life instrument used
      in the clinical and economic evaluation of health care. Developed by the
      EuroQol group <a href="https://eurogol.org/">https://eurogol.org/</a>, the instrument consists of two
      components: health state description and evaluation. For the description
      component a subject self-rates their health in terms of five dimensions;
      mobility, self-care, usual activities, pain/discomfort, and
      anxiety/depression using either a three-level (EQ-5D-3L,
      <https:
      //eurogol.org/information-and-support/eurogol-instruments/eq-5d-31/>) or a five-
      level
      (EO-5D-5L, <https:
      //euroqol.org/information-and-support/euroqol-instruments/eq-5d-51/>)
      scale. Frequently the scores on these five dimensions are converted to a
      single utility index using country specific value sets, which can be used
      in the clinical and economic evaluation of health care as well as in
      population health surveys. The eq5d package provides methods to calculate
      index scores from a subject's dimension scores. 31 TTO and 11 VAS EQ-5D-3L
      value sets including those for countries in Szende et al (2007)
      <doi:10.1007/1-4020-5511-0> and Szende et al (2014)
      <doi:10.1007/978-94-007-7596-1>, 43 EQ-5D-5L EQ-VT value sets, the
      EQ-5D-5L crosswalk value sets developed by van Hout et al. (2012)
      <doi:10.1016/j.jval.2012.02.008>, the crosswalk value sets for Bermuda and
      Russia and the reverse crosswalk value sets. 10 EQ-5D-Y value sets are also
      included as are the NICE 'DSU' age-sex based EQ-5D-3L to EQ-5D-5L and
      EQ-5D-5L to EQ-5D-3L mappings. Methods are also included for the analysis
      of EQ-5D profiles, including those from the book ``Methods for Analyzing and
      Reporting EQ-5D data" by Devlin et al. (2020)
      <doi:10.1007/978-3-030-47622-9>. Additionally a shiny web tool is included
      to enable the calculation, visualisation and automated statistical analysis
      of EQ-5D data via a web browser using EQ-5D dimension scores stored in CSV
      or Excel files.
```

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License MIT + file LICENSE **Encoding** UTF-8 **Depends** R (>= 3.5.0) Suggests testthat, shiny, DT, mime, readxl, ggplot2, ggiraph, ggiraphExtra, shinycssloaders, shinyWidgets, FSA, PMCMRplus, knitr, rmarkdown, covr, lifecycle URL https://github.com/fragla/eq5d BugReports https://github.com/fragla/eq5d/issues RoxygenNote 7.3.2 VignetteBuilder knitr Language en-GB NeedsCompilation no Author Fraser Morton [aut, cre], Jagtar Singh Nijjar [aut] Maintainer Fraser Morton <fraser.morton@glasgow.ac.uk> Repository CRAN

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Description

Crosswalk index value calculation table to calculate EQ-5D-3L indices from EQ-5D-5L data for Denmark, France, Germany, Japan, Netherlands, Russia, Spain, Thailand, UK, USA and Zimbabwe.

Usage

CW

Format

An object of class data. frame with 3125 rows and 12 columns.

Source

van Hout B, Janssen MF, et al. Interim scoring for the EQ-5D-5L: Mapping the EQ-5D-5L to EQ-5D-3L value sets. Value in Health 2012 Jul-Aug;15(5):708-15. doi: 10.1016/j.jval.2012.02.008. PubMed

Bailey H, Roudijk B, Brathwaite R. The EQ-5D-3L valuation study for Bermuda: using an on-line EQ-VT protocol. Eur J Health Econ. 2024 Jul 9. doi: 10.1007/s10198-024-01701-2. Epub ahead of print. PubMed.

Omelyanovskiy V, Musina N, Ratushnyak S, Bezdenezhnykh T, Fediaeva V, Roudijk B, Purba FD. Valuation of the EQ-5D-3L in Russia. Qual Life Res. 2021 Mar 13. doi: 10.1007/s11136-021-02804-6. Epub ahead of print. PubMed.

EQ-5D-5L Crosswalk Index Value Sets

DSU5L

DSU3L

DSU mapping from EQ-5D-3L to EQ-5D-5L

Description

Data for age and sex based mapping from EQ-5D-3L dimensions or utility index score to EQ-5D-5L for China, Germany, Japan, Netherlands, South Korea, Spain and UK.

Usage

DSU3L

Format

An object of class data. frame with 2430 rows and 22 columns.

Source

Hernández Alava M, Pudney S, Wailoo A. Estimating the Relationship Between EQ-5D-5L and EQ-5D-3L: Results from a UK Population Study. Pharmacoeconomics. 2023 Feb;41(2):199-207. doi: 10.1007/s40273-022-01218-7. Epub 2022 Nov 30. PubMed

Hernández-Alava M, Pudney S. Econometric modelling of multiple self-reports of health states: The switch from EQ-5D-3L to EQ-5D-5L in evaluating drug therapies for rheumatoid arthritis. J Health Econ. 2017 Sep;55:139-152. doi: 10.1016/j.jhealeco.2017.06.013. Epub 2017 Jul 4. PubMed.

NICE DSU mapping website.

DSU5L

DSU mapping from EQ-5D-5L to EQ-5D-3L

Description

Data for age and sex based mapping from EQ-5D-5L dimensions or utility index score to EQ-5D-3L for China, Germany, Japan, Netherlands, South Korea, Spain and UK.

Usage

DSU5L

Format

An object of class data. frame with 31250 rows and 22 columns.

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Source

Hernández Alava M, Pudney S, Wailoo A. Estimating the Relationship Between EQ-5D-5L and EQ-5D-3L: Results from a UK Population Study. Pharmacoeconomics. 2023 Feb;41(2):199-207. doi: 10.1007/s40273-022-01218-7. Epub 2022 Nov 30. PubMed

Hernández-Alava M, Pudney S. Econometric modelling of multiple self-reports of health states: The switch from EQ-5D-3L to EQ-5D-5L in evaluating drug therapies for rheumatoid arthritis. J Health Econ. 2017 Sep;55:139-152. doi: 10.1016/j.jhealeco.2017.06.013. Epub 2017 Jul 4. PubMed.

NICE DSU mapping website.

eq5d

Calculate EQ-5D index scores

Description

Wrapper for eq5d31, eq5d51 and eq5dy31. Calculate EQ-5D index scores for EQ-5D-3L, EQ-5D-5L and EQ-5D-Y-3L. Available value sets can be viewed using the function valuesets.

Usage

```
eq5d(scores, version, type, country, ignore.invalid, ...)
```

Arguments

scores numeric or data.frame with names/colnames MO, SC, UA, PD and AD repre-

senting Mobility, Self-care, Usual activities, Pain/discomfort and Anxiety/depression. Alternatively EQ-5D scores can be provided in five digit format e.g. 12321. If five digit scores are used in a data.frame the default column name look for by

the function is "State".

version string of value "3L", "5L" or "Y3L" to indicate instrument version.

type string specifying method type used in deriving value set scores. Options are

TTO or VAS for EQ-5D-3L, VT for EQ-5D-5L, CW for EQ-5D-5L crosswalk conversion valuesets, RCW for EQ-5D-3L reverse crosswalk conversion valuesets and DSU for the NICE Decision Support Unit's EEPRU age-sex based

EQ-5D-3L to EQ-5D-5L and EQ-5D-5L to EQ-5D-3L mappings.

country string of value set country name used.

ignore.invalid logical to indicate whether to ignore dimension data with invalid, incomplete or

missing data.

... character vectors for column names when using a data.frame. Use "dimensions" (default c("MO", "SC", "UA", "PD" and "AD")), "five.digit" (default "State")

or "utility", "age", "sex" and "bwidth" (defaults "Utility", "Age", "Sex" and "bwidth") for NICE DSU mapping. bwidth can also be a number which is applied to the whole dataset. When a single NICE DSU score is being calculated "age", "sex" and "bwidth" are also used. See eq5dmap for valid options. "digits"

can also be used to return NICE DSU mapping scores with more precision.

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Value

a numeric vector of utility index scores.

Examples

```
#EQ-5D-5L single utility score by dimension
eq5d(scores=c(MO=1,SC=2,UA=3,PD=4,AD=5), type="VT",
country="Indonesia", version="5L")
#EQ-5D-3L single utility score by dimension
eq5d(scores=c(MO=3,SC=2,UA=3,PD=2,AD=3),
type="TTO", version="3L", country="Germany")
#Mapping an EQ-5D-5L utility score to EQ-5D-3L using NICE DSU method
eq5d(0.922, country="UK", version="5L", type="DSU",
age=18, sex="male")
#Calculation of multiple EQ-5D-5L utility scores from a data.frame of dimensions
scores.df <- data.frame(</pre>
 MO=c(1,2,3,4,5), SC=c(1,5,4,3,2),
 UA=c(1,5,2,3,1), PD=c(1,3,4,3,4), AD=c(1,2,NA,2,1)
eq5d(scores.df, country="Canada", version="5L", type="VT", ignore.invalid=TRUE)
#Calculation of a utility score using five digit state
eq5d(scores=12321, type="TTO", version="3L", country="UK")
scores.df2 <- data.frame(</pre>
 state=c(11111,12121,23232,33333)
#Calculation of utility scores using a data.frame with five digit states
eq5d(scores=scores.df2, type="TT0", version="3L", country="UK", five.digit="state")
#Calculation of utility scores from a vector of five digit states
eq5d(scores=scores.df2$state, type="TTO", version="3L", country="UK")
#Mapping multiple utility scores from EQ-5D-5L to EQ-5D-3L using NICE DSU method
scores.df3 <- data.frame(</pre>
 Utility=c(0.715, 0.435, 0.95),
 Age=c(50,30,70),
 Sex=c("m", "f", "m"),
 bwidth=c(0.2,0.2,0.1)
)
#using bwidth column values (one per observation)
eq5d(scores.df3, type="DSU", version="5L", country="UK")
#using single bwidth value for whole dataset
eq5d(scores.df3, type="DSU", version="5L", country="UK", bwidth=0.1)
```

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eq5d31

Calculate EQ-5D-3L index scores

Description

Calculate indices for EQ-5D-3L value sets. Available value sets can be viewed using the function valuesets

Usage

```
eq5d3l(scores, type = "TTO", country = "UK")
```

Arguments

scores numeric with names MO, SC, UA, PD and AD representing Mobility, Self-care,

Usual activities, Pain/discomfort and Anxiety/depression.

type 3L values set type. Either TTO or VAS.

country value set country.

Value

calculated utility index score.

Examples

```
eq5d31(scores=c(MO=1,SC=2,UA=3,PD=1,AD=3), type="VAS", country="UK")
eq5d31(scores=c(MO=3,SC=2,UA=3,PD=2,AD=3), type="TTO", country="Germany")
```

eq5d51

Calculate EQ-5D-5L index scores

Description

Calculate indices for EQ-5D-5L value sets. Available value sets can be viewed using the function valuesets.

Usage

```
eq5d5l(scores, country = "England")
```

Arguments

scores numeric with names MO, SC, UA, PD and AD representing Mobility, Self-care,

Usual activities, Pain/discomfort and Anxiety/depression.

country value set country.

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Value

calculated utility index score.

Examples

```
eq5d51(scores=c(MO=1,SC=2,UA=3,PD=4,AD=5), country="England")
eq5d51(scores=c(MO=3,SC=2,UA=5,PD=2,AD=3), country="Netherlands")
```

eq5dcf

Calculate the cumulative frequency profile of an EQ-5D dataset

Description

Calculate the frequency, percentage, cumulative frequency and cumulative percentage for each profile in an EQ-5D dataset.

Usage

```
eq5dcf(data, version, ignore.invalid, proportions, digits, ...)
```

Arguments

data	A data.frame with columns MO, SC, UA, PD and AD representing Mobility, Self-care, Usual activities, Pain/discomfort and Anxiety/depression or a "State" column containing five digit scores. Alternatively a vector of five digit scores can also be used.
version	string of value "3L" or "5L" to indicate instrument version.
ignore.invalid	booloean whether to ignore invalid scores. TRUE returns NA, FALSE throws an error.
proportions	boolean whether to include proportion data columns Proportions and CumulativeProp. Default is FALSE.
digits	numeric specifying the number of decimal places for percentages. Defaults to 1.
• • •	character vector, specifying "dimensions" column names. Defaults are "MO",

Value

a data.frame or list of data.frames of counts/percentages. Columns contain dimensions names and rows the EQ-5D score.

Examples

```
dat <- read.csv(system.file("extdata", "eq5d3l_example.csv", package="eq5d"))
eq5dcf(dat, "3L")</pre>
```

"SC", "UA", "PD" and "AD".

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eq5dcw

Calculate EQ-5D-5L crosswalk index scores

Description

Calculate indices for EQ-5D-5L indices by mapping them onto EQ-5D-3L value sets. Available value sets can be viewed using the function valuesets.

Usage

```
eq5dcw(scores, country = "UK")
```

Arguments

scores numeric with names MO, SC, UA, PD and AD representing Mobility, Self-care,

Usual activities, Pain/discomfort and Anxiety/depression.

country value set country.

Value

calculated utility index score.

Examples

```
eq5dcw(scores=c(MO=1,SC=2,UA=5,PD=1,AD=3), country="UK")
eq5dcw(scores=c(MO=3,SC=5,UA=5,PD=2,AD=3), country="Germany")
```

eq5dds

Analyse the descriptive system of an EQ-5D dataset

Description

Analyses the descriptive components of an EQ-5D dataset producing summary information either as counts or as percentages.

Usage

```
eq5dds(data, version, counts = FALSE, by = NULL, ignore.invalid = TRUE, ...)
```

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Arguments

data	numeric or data.frame with names/colnames MO, SC, UA, PD and AD representing Mobility, Self-care, Usual activities, Pain/discomfort and Anxiety/depression. Alternatively an EQ-5D score can be provided in five digit format e.g. 12321.
version	string of value "3L" or "5L" to indicate instrument version.
counts	logical show absolute counts in the summary table. Default is FALSE, which shows percentages for each EQ-5D dimension.
by	character specifying the column in the data.frame by which to group the results.
ignore.invalid	boolean whether to ignore invalid scores. TRUE returns NA, FALSE throws an error.
	character vector, specifying "dimensions" column names. Defaults are "MO", "SC", "UA", "PD" and "AD".

Value

a data.frame or list of data.frames of counts/percentages. Columns contain dimensions names and rows the EQ-5D score.

Examples

eq5dmap Calculate utility index scores by mapping between EQ-5D-3L and EQ-5D-5L

Description

Conditional prediction of the utility values of 5L scores onto 3L value sets and 3L scores onto 5L value sets from observed or specified values conditional on age and gender using the NICE Decision Support Unit's EEPRU funded models (see NICE DSU's website for more information).

Usage

```
eq5dmap(scores, country, version, age, sex, bwidth = 0, digits = 3)
```

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Arguments

scores	numeric with names MO, SC, UA, PD and AD representing Mobility, Self-care, Usual activities, Pain/discomfort and Anxiety/depression. or a utility index score
country	value set country
version	string of value "3L" or "5L" to indicate starting instrument version.
age	age in years (18-100), or age category (1: 18-34, 2: 35-44, 3: 45-54, 4: 55-64, 5: 65-100)
sex	Male or Female
bwidth	bandwith score for approximate scores (< 0.8: 0.2, 0.8-0.951: 0.1, 0.951-1: small, but large enough to include 1)
digits	number of decimal places to return

Details

Available value sets can be viewed using the function valuesets.

Value

calculated utility index score.

Examples

```
eq5dmap(c(MO=1,SC=2,UA=3,PD=4,AD=5), "UK", "5L", 30, "female")
eq5dmap(0.922, "UK", "5L", 18, "male")
eq5dmap(0.715, "UK", "5L", 50, "male", bwidth = 0.0001)
eq5dmap(0.715, "UK", "5L", 50, "male", bwidth = 0.0001, digits = 8)
```

eq5drcw

Calculate EQ-5D-3L reverse crosswalk index scores

Description

Calculate indices for EQ-5D-3L indices by mapping them onto EQ-5D-5L value sets. Available value sets can be viewed using the function valuesets.

Usage

```
eq5drcw(scores, country = "UK")
```

Arguments

scores numeric with names MO, SC, UA, PD and AD representing Mobility, Self-care,

Usual activities, Pain/discomfort and Anxiety/depression.

country value set country.

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Value

calculated utility index score.

Examples

```
eq5drcw(scores=c(MO=1,SC=2,UA=3,PD=2,AD=1), country="Netherlands")
eq5drcw(scores=c(MO=3,SC=3,UA=3,PD=3,AD=3), country="Germany")
```

eq5dy

Calculate EQ-5D-Y index scores

Description

```
'r lifecycle::badge("deprecated")
```

'eq5dy' was renamed to 'eq5dy31' to be consistent with the new EuroQol naming convention.

Usage

```
eq5dy(scores, country = NULL)
```

Arguments

scores

numeric with names MO, SC, UA, PD and AD representing Mobility, Self-care,

Usual activities, Pain/discomfort and Anxiety/depression.

country value set country.

Value

calculated utility index score.

eq5dy31

Calculate EQ-5D-Y-3L index scores

Description

Calculate indices for EQ-5D-Y-3L value sets. Available value sets can be viewed using the function valuesets.

Usage

```
eq5dy31(scores, country = NULL)
```

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Arguments

scores numeric with names MO, SC, UA, PD and AD representing Mobility, Self-care,

Usual activities, Pain/discomfort and Anxiety/depression.

country value set country.

Value

calculated utility index score.

Examples

```
eq5dy3l(scores=c(MO=3,SC=3,UA=3,PD=3,AD=3), country="Slovenia")
```

```
get_all_health_states Get all five digit health state scores
```

Description

Get all five digit health state scores for either EQ-5D-3L, EQ-5D-5L or EQ-5D-Y3L

Usage

```
get_all_health_states(version)
```

Arguments

version the EQ-5D version. Either 3L or 5L.

Value

A character vector of five digit health states.

Examples

```
get_all_health_states("3L")
get_all_health_states("5L")
get_all_health_states("Y3L")
```

```
get_dimensions_from_health_states
```

Get individual dimension scores from their five digit health states

Description

Get a data.frame of individual dimension scores from their five digit health states.

Usage

```
get_dimensions_from_health_states(
   scores,
   ignore.invalid = TRUE,
   version = "5L"
)
```

Arguments

```
scores a vector of five digit scores
ignore.invalid whether to ignore invalid scores. TRUE returns NA, FALSE throws an error.
version 3L, 5L or Y. Used for validating scores when ignore.invalid is FALSE.
```

Value

A data frame of individual dimension scores.

Examples

```
get_dimensions_from_health_states(c("12345", "54321"), version="5L")
```

```
get_health_states_from_dimensions
```

Get five digit health states from dimension scores

Description

Merge MO, SC, UA, PD and AD dimension scores to get five digit health states.

Usage

```
get_health_states_from_dimensions(
   scores,
   version = "5L",
   ignore.invalid = TRUE,
   dimensions = .get_dimension_names()
)
```

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Arguments

scores a data.fram containing each dimension in a column

version 3L, 5L or Y. Used for validating scores when ignore.invalid is FALSE.

ignore.invalid whether to ignore invalid scores. TRUE returns NA, FALSE throws an error.

dimensions character vector specifying "dimensions" column names. Defaults are "MO",
 "SC", "UA", "PD" and "AD".

Value

A character vector of individual dimension scores.

Examples

hpg

Calculate the Health Profile Grid

Description

Calculate the Health Profile Grid (HPG) for two EQ-5D datasets.

Usage

```
hpg(
  pre,
  post,
  country = NULL,
  version = NULL,
  type = NULL,
  ignore.invalid = TRUE,
  dimensions = .get_dimension_names(),
  no.problems = TRUE
)
```

Arguments

pre

data.frame, numeric or character. For data.frame default column names should be MO, SC, UA, PD and AD representing Mobility, Self-care, Usual activities, Pain/discomfort and Anxiety/depression. Vector using five digit format can also be used.

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post data.frame, numeric or character. For data.frame default column names should be MO, SC, UA, PD and AD representing Mobility, Self-care, Usual activities, Pain/discomfort and Anxiety/depression. Vector using five digit format can also

be used.

country string of value set country name used.

version string of value "3L" or "5L" to indicate instrument version.

type string specifying method type used in deriving value set scores. Options are

TTO or VAS for EQ-5D-3L, VT for EQ-5D-5L, CW for EQ-5D-5L crosswalk conversion valuesets, RCW for EQ-5D-3L reverse crosswalk conversion value-

sets.

ignore.invalid boolean whether to ignore invalid scores. TRUE returns NA, FALSE throws an

error.

dimensions character vector, specifying "dimension" column names. Defaults are "MO",

"SC", "UA", "PD" and "AD".

no.problems boolean. Summarise 11111 "No change" subjects in a "No problems" group.

Value

a data.frame or list of data.frames containing the columns Pre, Post and PCHC. Pre and Post contain the severity rankings and PCHC the PCHC category.

Examples

```
dat <- read.csv(system.file("extdata", "eq5d31_example.csv", package="eq5d"))
pre <- dat[dat$Group=="Group1",][1:50,]
post <- dat[dat$Group=="Group2",][1:50,]
res <- hpg(pre, post, country="UK", version="3L", type="TTO")
head(res)</pre>
```

hsdi

Calculate the Health State Density Index

Description

Calculate the Health State Density Index (HSDI) for an EQ-5D dataset.

Usage

```
hsdi(scores, version = NULL, ignore.invalid = TRUE, digits = 2, ...)
```

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Arguments

scores data.frame, numeric or character. For data.frame default column names

should be MO, SC, UA, PD and AD representing Mobility, Self-care, Usual activities, Pain/discomfort and Anxiety/depression. Vector using five digit format

can also be used.

version string of value "3L" or "5L" to indicate instrument version.

ignore.invalid booloean whether to ignore invalid scores. TRUE returns NA, FALSE throws

an error.

digits numeric specifying the number of decimal places for percentages. Defaults to

1, use NULL to skip rounding.

... character vector, specifying "dimensions" column names. Defaults are "MO",

"SC", "UA", "PD" and "AD".

Value

numeric containing the HSDI value.

Examples

```
dat <- read.csv(system.file("extdata", "eq5d31_example.csv", package="eq5d"))
hsdi(dat, version="3L")</pre>
```

lfs

Calculate the Level Frequency Score for an EQ-5D profile

Description

Calculate the Levels Frequency Score for a single or number of EQ-5D profiles

Usage

```
lfs(scores, version, ignore.invalid, ...)
```

Arguments

scores data.frame with names MO, SC, UA, PD and AD representing Mobility, Self-

care, Usual activities, Pain/discomfort and Anxiety/depression.

version string of value "3L", "5L" or "Y3L" to indicate instrument version.

ignore.invalid whether to ignore invalid scores. TRUE returns NA, FALSE throws an error.

... character vector, specifying "dimensions" column names. Defaults are "MO",

"SC", "UA", "PD" and "AD".

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Value

a data.frame or list of data.frames of counts/percentages. Columns contain dimensions names and rows the EQ-5D score.

Examples

```
lfs(c(MO=1,SC=2,UA=3,PD=2,AD=1), version="3L")
lfs(55555, version="5L")
lfs(c(11111, 12345, 55555), version="5L")
```

lss

Calculate the Level Sum Score for an EQ-5D profile

Description

Calculate the Levels Sum Score for a single or number of EQ-5D profiles

Usage

```
lss(scores, version, ignore.invalid, ...)
```

Arguments

data.frame with names MO, SC, UA, PD and AD representing Mobility, Self-care, Usual activities, Pain/discomfort and Anxiety/depression.

version string of value "3L" or "5L" to indicate instrument version.

ignore.invalid whether to ignore invalid scores. TRUE returns NA, FALSE throws an error.

character vector, specifying "dimensions" column names. Defaults are "MO", "SC", "UA", "PD" and "AD".

Value

a data.frame or list of data.frames of counts/percentages. Columns contain dimensions names and rows the EQ-5D score.

Examples

```
lss(c(M0=1,SC=2,UA=3,PD=2,AD=1), version="3L")
lss(55555, version="5L")
lss(c(11111, 12345, 55555), version="5L")
```

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pchc Calculate the Paretian Classification of Health Change

Description

Calculate the Paretian Classification of Health Change (PCHC) for two EQ-5D datasets.

Usage

```
pchc(
  pre,
  post,
  version = NULL,
  no.problems = TRUE,
  totals = TRUE,
  by.dimension = FALSE,
  ignore.invalid = TRUE,
  dimensions = .get_dimension_names(),
  summary = TRUE
)
```

Arguments

pre	data.frame, numeric or character. For data.frame default column names should be MO, SC, UA, PD and AD representing Mobility, Self-care, Usual activities, Pain/discomfort and Anxiety/depression. Vector using five digit format can also be used.
post	data.frame, numeric or character. For data.frame default column names should be MO, SC, UA, PD and AD representing Mobility, Self-care, Usual activities, Pain/discomfort and Anxiety/depression. Vector using five digit format can also be used.
version	string of value "3L" or "5L" to indicate instrument version.
no.problems	boolean. Summarise 11111 "No change" subjects in a "No problems" group.
totals	boolean. Include a summary total.
by.dimension	boolean. Summarise results by each EQ-5D dimension rather than by the whole dataset.
ignore.invalid	boolean whether to ignore invalid scores. TRUE returns NA, FALSE throws an error.
dimensions	character vector, specifying "dimension" column names. Defaults are "MO", "SC", "UA", "PD" and "AD".
summary	boolean. Summarise results or return all classifications.

Value

a data.frame or list of data.frames of changes according to PCHC. contain dimensions names and rows the EQ-5D score or, if summary=FALSE, a vector or list of vectors of changes.

20 ps

Examples

```
dat <- read.csv(system.file("extdata", "eq5d3l_example.csv", package="eq5d"))
pre <- dat[dat$Group=="Group1",][1:50,]
post <- dat[dat$Group=="Group2",][1:50,]
pchc(pre, post, version="3L", no.problems=FALSE, totals=FALSE)</pre>
```

ps

Calculate the Probablility of Superiority

Description

Calculate the Probablility of Superiority (PS) for the dimensions of two EQ-5D datasets. Score is less than 0.5 if more patients deteriorate than improve, 0.5 if the same number of patients improve and deteriorate or do not change and greater than 0.5 if more patients improve than deteriorate.

Usage

```
ps(
   pre,
   post,
   version = NULL,
   ignore.invalid = TRUE,
   dimensions = .get_dimension_names(),
   digits = 2
)
```

Arguments

pre	data.frame, numeric or character. For data.frame default column names should
	ha MO CC IIA DD and AD representing Mahilitas Calf and Haral activities

be MO, SC, UA, PD and AD representing Mobility, Self-care, Usual activities, Pain/discomfort and Anxiety/depression. Vector using five digit format can also

be used.

post data.frame, numeric or character. For data.frame default column names should

be MO, SC, UA, PD and AD representing Mobility, Self-care, Usual activities, Pain/discomfort and Anxiety/depression. Vector using five digit format can also

be used.

version string of value "3L" or "5L" to indicate instrument version.

ignore.invalid boolean whether to ignore invalid scores. TRUE returns NA, FALSE throws an

error.

dimensions character vector, specifying "dimension" column names. Defaults are "MO",

"SC", "UA", "PD" and "AD".

digits numeric specifying the number of decimal places. Defaults to 2.

RCW 21

Value

a list of Probability of Superiority scores by dimension.

Examples

```
dat <- read.csv(system.file("extdata", "eq5d3l_example.csv", package="eq5d"))
pre <- dat[dat$Group=="Group1",][1:50,]
post <- dat[dat$Group=="Group2",][1:50,]
ps(pre, post, version="3L")</pre>
```

RCW

EQ-5D-3L Reverse Crosswalk data

Description

Reverse Crosswalk index value table to calculate EQ-5D-5L indices from EQ-5D-3L data for England, Germany, Netherlands and USA. Table uses the values of van Hout et al from the EuroQol analysis tools webpage.

Usage

RCW

Format

An object of class data. frame with 243 rows and 4 columns.

Source

Reverse crosswalk datasets

shannon

Calculate Shannon's Index

Description

Calculate Shannon's H' (diversity) index, H' max and Shannon's J' (evenness) index for an EQ-5D data set. This can be calculated both by dimension and for health states as a whole.

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Usage

```
shannon(
    scores,
    version = NULL,
    by.dimension = TRUE,
    ignore.invalid = TRUE,
    dimensions = .get_dimension_names(),
    base = 2,
    digits = 2,
    permutations = TRUE
)
```

Arguments

scores data.frame, numeric or character. For data.frame default column names should

be MO, SC, UA, PD and AD representing Mobility, Self-care, Usual activities, Pain/discomfort and Anxiety/depression. Vector using five digit format can also

be used.

version string of value "3L" or "5L" to indicate instrument version.

by dimension boolean whether to calculate scores by EQ-5D dimensions or for the whole

dataset. Defaults to TRUE.

ignore.invalid boolean whether to ignore invalid scores. TRUE returns NA, FALSE throws an

error.

dimensions character vector, specifying "dimension" column names. Defaults are "MO",

"SC", "UA", "PD" and "AD".

base numeric base of logarithm to use. Defaults to base 2.

digits numeric specifying the number of decimal places. Defaults to 2.

permutations boolean whether to use maximum number of permutations for H' max or the

number of observed unique profiles. Default is TRUE.

Value

a single list or list of dimensions containing H' H' max and J' scores.

Examples

```
dat <- read.csv(system.file("extdata", "eq5d3l_example.csv", package="eq5d"))
shannon(dat, version="3L", by.dimension=FALSE)
shannon(dat, version="3L", by.dimension=TRUE)</pre>
```

shiny_eq5d 23

shiny_eq5d

Launch shiny EQ-5D interface

Description

shiny_eq5d launches a shiny interface for browser based EQ-5D calculations.

Usage

```
shiny_eq5d(display.mode = "normal")
```

Arguments

display.mode The display mode to be passed to runApp

Examples

```
## Not run:
shiny_eq5d()
shiny_eq5d(display.mode="normal")
## End(Not run)
```

TT0

EQ-5D-3L TTO value set data

Description

Coefficients for the estimation of the EQ-5D-3L index values based on TTO valuation studies for Argentina, Australia, Brazil, Canada, Chile, China, Denmark, Ecuador, France, Germany, Hungary, Italy, Japan, Netherlands, Pakistan, Poland, Portugal, Russia, Singapore, SouthKorea, Spain, SriLanka, Sweden, Taiwan, Thailand, Trinidad and Tobago, Tunisia, UK, USA and Zimbabwe.

Usage

TTO

Format

An object of class data. frame with 63 rows and 31 columns.

Source

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Szende, A., Oppe, M., & de Charro, F. (2007), Comparative review of Time Trade-Off value sets. In Szende, A., Oppe, M., & Devlin, N. (Ed.), EQ-5D Value Sets: Inventory, Comparative Review and User Guide (pp. 27-28). Dordrecht, The Netherlands: Springer.

Janssen, B., Szende, A., & Ramos-Goñi JM. (2014), Data and Methods. Szende, A., Janssen, B., & Cabasés, J. (Ed.), In Self-Reported Population Health: An International Perspective based on EQ-5D (p 13). Dordrecht, The Netherlands: Springer.

- Argentina: Augustovski FA, Irazola VE, Velazquez AP, Gibbons L, Craig BM. Argentine valuation of the EQ-5D health states. Value Health. 2009 Jun;12(4):587-96. doi: 10.1111/j.1524-4733.2008.00468.x. Epub 2008 Nov 12. PubMed
- Australia: Viney R, Norman R, King MT, Cronin P, Street DJ, Knox S, Ratcliffe J. Time trade-off derived EQ-5D weights for Australia. Value Health. 2011 Sep-Oct;14(6):928-36. doi: 10.1016/j.jval.2011.04.009. PubMed
- **Bermuda**: Bailey H, Roudijk B, Brathwaite R. The EQ-5D-3L valuation study for Bermuda: using an on-line EQ-VT protocol. Eur J Health Econ. 2024 Jul 9. doi: 10.1007/s10198-024-01701-2. Epub ahead of print. PubMed
- Brazil: Viegas Andrade M, Noronha K, Kind P, Maia AC, Miranda de Menezes R, De Barros Reis C, Nepomuceno Souza M, Martins D, Gomes L, Nichele D, Calazans J, Mascarenhas T, Carvalho L, Lins C. Societal Preferences for EQ-5D Health States from a Brazilian Population Survey. Value in Health Regional Issues 2013;2(3):405–412. PubMed
- Canada: Bansback N, Tsuchiya A, Brazier J, Anis A. Canadian valuation of EQ-5D health states: preliminary value set and considerations for future valuation studies. PLoS One. 2012;7(2):e31115. PubMed
- Chile: Zarate V, Kind P, Valenzuela P, Vignau A, Olivares-Tirado P, Munoz A. Social valuation of EQ-5D health states: the Chilean case. Value in Health. 2011 Dec;14(8):1135-41. PubMed
- China: Liu GG, Wu H, Li M, Gao C, Luo N. Chinese time trade-off values for EQ-5D health states. Value Health. 2014 Jul;17(5):597-604. doi: 10.1016/j.jval.2014.05.007. Epub 2014 Jul 23. PubMed
- Denmark: Wittrup-Jensen KU, Lauridsen J, Gudex C, Pedersen KM. Generation of a Danish TTO value set for EQ-5D health states. Scandinavian Journal of Public Health. 2009;37(5):459-466. PubMed
- Ecuador: Lucio R, Flores V, Granja M, Mata G. Resultados de la encuesta de valoración social de los estados de salud de lAños de vida ajustados por calidad (QALY'S). 2019. Link
- France: Chevalier J, de Pouvourville G. Valuing EQ-5D using time trade-off in France. Eur J Health Econ. 2013 Feb;14(1):57-66. doi: 10.1007/s10198-011-0351-x. Epub 2011 Sep 21. PubMed
- **Germany**: Greiner W, Claes C, Busschbach JJ, von der Schulenburg JM. Validating the EQ-5D with time trade off for the German population. Eur J Health Econ. 2005 Jun;6(2):124-30. doi: 10.1007/s10198-004-0264-z. PubMed
- Hungary: Rencz F, Brodszky V, Gulácsi L, Golicki D, Ruzsa G, Pickard AS, Law EH, Péntek M. Parallel Valuation of the EQ-5D-3L and EQ-5D-5L by Time Trade-Off in Hungary. Value Health. 2020 Sep;23(9):1235-1245. doi: 10.1016/j.jval.2020.03.019. Epub 2020 Aug 12. PubMed

- Italy: Scalone L, Cortesi PA, Ciampichini R, Belisari A, D'Angiolella LS, Cesana G, Mantovani LG. Italian population-based values of EQ-5D health states. Value Health. 2013 Jul-Aug;16(5):814-22. doi: 10.1016/j.jval.2013.04.008. Epub 2013 Jun 19. PubMed
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- **Poland**: Golicki D, Jakubczyk M, Niewada M, Wrona W, Busschbach JJ. Valuation of EQ-5D health states in Poland: first TTO-based social value set in Central and Eastern Europe. Value in Health. 2010;13(2):289-97. PubMed
- Portugal: Ferreira LN, Ferreira PL, Pereira LN, Oppe M. The valuation of the EQ-5D in Portugal. Qual Life Res. 2014 Mar;23(2):413-23. doi: 10.1007/s11136-013-0448-z. Epub 2013 Jun 8. PubMed
- Russia: Omelyanovskiy V, Musina N, Ratushnyak S, Bezdenezhnykh T, Fediaeva V, Roudijk B, Purba FD. Valuation of the EQ-5D-3L in Russia. Qual Life Res. 2021 Mar 13. doi: 10.1007/s11136-021-02804-6. Epub ahead of print. PubMed
- **Singapore**: Luo N, Wang P, Thumboo J, Lim YW, Vrijhoef HJ. Valuation of EQ-5D-3L health states in Singapore: modeling of time trade-off values for 80 empirically observed health states. Pharmacoeconomics. 2014 May;32(5):495-507. doi: 10.1007/s40273-014-0142-1. PubMed
- **Spain**: Badia X, Roset M, Herdman M, Kind P. A comparison of United Kingdom and Spanish general population time trade-off values for EQ-5D health states. Med Decis Making. 2001 Jan-Feb;21(1):7-16. doi: 10.1177/0272989X0102100102. PubMed
- South Korea: Lee YK, Nam HS, Chuang LH, Kim KY, Yang HK, Kwon IS, Kind P, Kweon SS, Kim YT. South Korean time trade-off values for EQ-5D health states: modeling with observed values for 101 health states. Value Health. 2009 Nov-Dec;12(8):1187-93. doi: 10.1111/j.1524-4733.2009.00579.x. Epub 2009 Jul 29. PubMed
- Sri Lanka: Kularatna S, Whitty JA, Johnson NW, Jayasinghe R, Scuffham PA. Valuing EQ-5D health states for Sri Lanka. Qual Life Res. 2015 Jul;24(7):1785-93. doi:10.1007/s11136-014-0906-2. Epub 2014 Dec 28. PubMed PMID: PubMed
- Sweden: Burström K, Sun S, Gerdtham UG, Henriksson M, Johannesson M, Levin LÅ, Zethraeus N. Swedish experience-based value sets for EQ-5D health states. Qual Life Res. 2014 Mar;23(2):431-42. doi: 10.1007/s11136-013-0496-4. PubMed
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- **Thailand**: Tongsiri S, Cairns J. Estimating population-based values for EQ-5D health states in Thailand. Value Health. 2011 Dec;14(8):1142-5. doi: 10.1016/j.jval.2011.06.005. PubMed

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• Trinidad and Tobago: Bailey H, Stolk E, Kind P. Toward Explicit Prioritization for the Caribbean: An EQ-5D Value Set for Trinidad and Tobago. Value Health Reg Issues. 2016 Dec;11:60-67. doi: 10.1016/j.vhri.2016.07.010. PubMed

- Tunisia: Chemli J, Drira C, Felfel H, Roudijk B, Al Sayah F, Kouki M, Kooli A, Razgallah Khrouf M. Valuing health-related quality of life using a hybrid approach: Tunisian value set for the EQ-5D-3L. Qual Life Res. 2021 Jan 14. doi: 10.1007/s11136-020-02730-z. Epub ahead of print. PubMed
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- USA: Shaw JW, Johnson JA, Coons SJ. US valuation of the EQ-5D health states: development and testing of the D1 valuation model. Med Care. 2005 Mar;43(3):203-20. doi: 10.1097/00005650-200503000-00003. PubMed
- **Zimbabwe**: Jelsma J, Hansen K, De Weerdt W, De Cock P, Kind P. How do Zimbabweans value health states? Popul Health Metr. 2003 Dec 16;1(1):11. doi: 10.1186/1478-7954-1-11. PubMed

valuesets

Get the available EQ-5D value sets.

Description

valuesets returns a data.frame of the available EQ-5D value sets in the eq5d package.

Usage

```
valuesets(
  type = NULL,
  version = NULL,
  country = NULL,
  references = c("PubMed", "DOI", "ISBN", "ExternalURL")
)
```

Arguments

type string EQ-5D value set type. TTO or VAS for EQ-5D-3L, VT for EQ-5D-5L,

cTTO for EQ-5D-Y-3L, CW for EQ-5D-5L crosswalk conversion dataset, or DSU for NICE Decision Support Unit's EQ-5D-5L to EQ-5D-3L and EQ-5D-

3L to EQ-5D-5L mappings.

version string either 3L, 5L or Y.

country string one of the countries for which there is a value set.

references character vector of reference columns. One or more of PubMed, DOI, ISBN

or ExternalURL. Default is all. Reference columns can be removed by setting

argument to NULL.

VAS 27

Value

A data frame containing the EQ-5D version, the value set type and country, along with PubMed IDs, DOIs, ISBNs and external URLs where available.

Examples

```
valuesets()
valuesets(type="TTO")
valuesets(version="5L")
valuesets(country="UK")
valuesets(version="Y3L", references=c("DOI", "PubMed"))
```

VAS

EQ-5D-3L VAS value set data

Description

Coefficients for the estimation of the EQ-5D-3L index values based on VAS valuation studies for Belgium, Denmark, Europe, Finland, Germany, Iran, Malaysia, New Zealand, Slovenia, Spain and UK.

Usage

VAS

Format

An object of class data. frame with 21 rows and 11 columns.

Source

Oppe, M., Szende, A., & de Charro, F. (2007), Comparative review of Visual Analogue Scale value sets. In Szende, A., Oppe, M., & Devlin, N. (Ed.), EQ-5D Value Sets: Inventory, Comparative Review and User Guide (pp. 37-38). Dordrecht, The Netherlands: Springer.

- **Belgium**: Cleemput I. A social preference valuations set for EQ-5D health states in Flanders, Belgium. Eur J Health Econ. 2010 Apr;11(2):205-13. doi: 10.1007/s10198-009-0167-0. Epub 2009 Jul 7. PubMed
- **Denmark**: Wittrup-Jensen KU, Lauridsen JT, Gudex C, Brooks R, Pedersen KM. Estimating Danish EQ-5D tariffs using TTO and VAS. In: Norinder A, Pedersen K, Roos P, editors. Proceedings of the 18th Plenary Meeting of the EuroQol Group. 2001. Copenhagen, Denmark. IHE, The Swedish Institute for Health Economics, 2002: 257-292.
- Europe: Greiner W, Weijnen T, Nieuwenhuizen M, et al. A single European currency for EQ-5D health states. Results from a six country study. Eur J Health Econ 2003; 4(3):222-231.
- **Finland**: Ohinmaa, A., & Sintonen, H. (1998, October). Inconsistencies and modelling of the Finnish EuroQol (EQ-5D) preference values. In EuroQol Plenary Meeting (pp. 1-2). Health Economics and Health System Research, University of Hannover.

28 VT

• Germany: Claes, C., Greiner, W., Uber, A., & Graf von der Schulenburg, J. M. (1999). An interview-based comparison of the TTO and VAS values given to EuroQol states of health by the general German population. In Proceedings of the 15th Plenary Meeting of the EuroQol Group. Hannover, Germany: Centre for Health Economics and Health Systems Research, University of Hannover (pp. 13-38).

- Iran: Goudarzi R, Zeraati H, Akbari Sari A, Rashidian A, Mohammad K. Population-Based Preference Weights for the EQ-5D Health States Using the Visual Analogue Scale (VAS) in Iran. Iran Red Crescent Med J. 2016 Feb 13;18(2):e21584. doi: 10.5812/ircmj.21584.
 PubMed
- Malaysia: Yusof FA, Goh A, Azmi S. Estimating an EQ-5D value set for Malaysia using time trade-off and visual analogue scale methods. Value Health. 2012 Jan-Feb;15(1 Suppl):S85-90. doi: 10.1016/j.jval.2011.11.024. PubMed
- New Zealand: Devlin NJ, Hansen P, Kind P, Williams A. Logical inconsistencies in survey respondents' health state valuations a methodological challenge for estimating social tariffs. Health Econ. 2003 Jul;12(7):529-44. doi: 10.1002/hec.741. PubMed
- Slovenia: Prevolnik Rupel V, Rebolj M. The Slovenian VAS Tariff based on valuations of EQ-5D health states from the general population. In: Cabasés JM, Gaminde I, editors. Proceedings of the 17th Plenary Meeting of the EuroQol Group. Universidad Pública de Navarra 2001; 23-47.
- Spain Badia X, Roset M, Monserrat S, Herdman M. The Spanish VAS tariff based on valuation of EQ-5D health states from the general population. In: Rabin RE et al, editors. EuroQol Plenary meeting Rotterdam 1997, 2-3 October. Discussion papers. Centre for Health Policy & Law, Erasmus University, Rotterdam, 1998; 93-114
- UK MVH Group. The Measurement and Valuation of Health. Final report on the modeling of valuation tariffs. York Centre for Health Economics, 1995.

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EQ-5D-5L VT value set data

Description

EQ-5D-5L VT value set calculation data for Australia, Belgium, Canada, China, Denmark, Egypt, England, Ethiopia, France, Germany, HongKong, Hungary, India, Indonesia, Iran, Ireland, Italy, Japan, Malaysia, Mexico, Netherlands, NewZealand, Peru, Philippines, Poland, Portugal, Romania, SaudiArabia, Slovenia, SouthKorea, Spain, Sweden, Taiwan, Thailand, Uganda, Uruguay, USA, Vietnam and Western Preference Pattern (WePP).

Usage

۷T

Format

An object of class data. frame with 35 rows and 43 columns.

Source

- Australia: Norman R, Mulhern B, Lancsar E, Lorgelly P, Ratcliffe J, Street D, Viney R.
 The Use of a Discrete Choice Experiment Including Both Duration and Dead for the Development of an EQ-5D-5L Value Set for Australia. Pharmacoeconomics. 2023 Jan 31. doi: 10.1007/s40273-023-01243-0. Epub ahead of print. PubMed
- **Belgium**: Bouckaert N, Cleemput I, Devriese S, Gerkens S. An EQ-5D-5L Value Set for Belgium. Pharmacoecon Open. 2022 Aug 4. doi: 10.1007/s41669-022-00353-3. Epub ahead of print. PubMed
- Canada: Xie F, Pullenayegum E, Gaebel K, Bansback N, Bryan S, Ohinmaa A, Poissant L, Johnson JA. A Time Trade-off-derived Value Set of the EQ-5D-5L for Canada. Med Care. 2016;54(1):98-105. PubMed
- China: Luo N, Liu G, Li M, Guan H, Jin X, Rand-Hendriksen K. Estimating an EQ-5D-5L Value Set for China. Value in Health. 2017 Apr;20(4):662-669. doi: 10.1016/j.jval.2016.11.016. Epub 2017 Feb 9. PubMed
- **Denmark**: Jensen CE, Sørensen SS, Gudex C, Jensen MB, Pedersen KM, Ehlers LH. The Danish EQ-5D-5L Value Set: A Hybrid Model Using cTTO and DCE Data. Appl Health Econ Health Policy. 2021 Feb 2. doi: 10.1007/s40258-021-00639-3. Epub ahead of print. PubMed
- **Egypt**: Al Shabasy S, Abbassi M, Finch A, Roudijk B, Baines D, Farid S. The EQ-5D-5L Valuation Study in Egypt. Pharmacoeconomics. 2021 Nov 17:1–15. doi: 10.1007/s40273-021-01100-y. Epub ahead of print. PubMed
- England: Devlin N, Shah K, Feng Y, Mulhern B, van Hout B. Valuing health-related quality of Life: An EQ-5D-5L Value Set for England. Health Economics. 2018 Jan;27(1):1-22 PubMed
- Ethiopia: Welie AG, Gebretekle GB, Stolk E, Mukuria C, Krahn MD, Enquoselassie F, Fenta TG. Valuing Health State: An EQ-5D-5L Value Set for Ethiopians. Value Health Reg Issues. 2019 Nov 1;22:7-14. doi: 10.1016/j.vhri.2019.08.475. PubMed
- France: Andrade LF, Ludwig K, Goni JMR, Oppe M, de Pouvourville G. A French Value Set for the EQ-5D-5L. Pharmacoeconomics. 2020 Jan 8. doi: 10.1007/s40273-019-00876-4. PubMed
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- HongKong: Wong ELY, Ramos-Goñi JM, Cheung AWL, Wong AYK, Rivero-Arias O. Assessing the Use of a Feedback Module to Model EQ-5D-5L Health States Values in Hong Kong. Patient. 2018 Apr;11(2):235-247. doi: 10.1007/s40271-017-0278-0. PubMed
- Hungary: Rencz F, Brodszky V, Gulácsi L, Golicki D, Ruzsa G, Pickard AS, Law EH, Péntek M. Parallel Valuation of the EQ-5D-3L and EQ-5D-5L by Time Trade-Off in Hungary. Value Health. 2020 Sep;23(9):1235-1245. doi: 10.1016/j.jval.2020.03.019. Epub 2020 Aug 12. PubMed
- India: Jyani G, Sharma A, Prinja S, Kar SS, Trivedi M, Patro BK, Goyal A, Purba FD, Finch AP, Rajsekar K, Raman S, Stolk E, Kaur M. Development of an EQ-5D Value Set for India Using an Extended Design (DEVINE) Study: The Indian 5-Level Version EQ-5D Value Set. Value Health. 2022 Jul;25(7):1218-1226. doi: 10.1016/j.jval.2021.11.1370. Epub 2022 Jan 5. PubMed

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- Iran: Afshari S, Daroudi R, Goudarzi R, Mahboub-Ahari A, Yaseri M, Sari AA, Ameri H, Bahariniya S, Oliaei-Manesh A, Kalavani K, Zare Z, Hasannezhad E, Mirzaei M, Amiri Z. A national survey of Iranian general population to estimate a value set for the EQ-5D-5L. Qual Life Res. 2023 Mar 10. doi: 10.1007/s11136-023-03378-1. Epub ahead of print. PubMed
- Ireland: Hobbins A, Barry L, Kelleher D, Shah K, Devlin N, Ramos Goñi JM, O'Neill C. Utility Values for Health States in Ireland: A Value Set for the EQ-5D-5L. PharmacoEconomics. 2018 Nov;36(11):1345-1353. doi: 10.1007/s40273-018-0690-x. PubMed
- Italy: Finch AP, Meregaglia M, Ciani O, Roudijk B, Jommi C. An EQ-5D-5L value set for Italy using videoconferencing interviews and feasibility of a new mode of administration. Soc Sci Med. 2022 Jan;292:114519. doi: 10.1016/j.socscimed.2021.114519. Epub 2021 Oct 28. PubMed
- Japan: Shiroiwa T, Ikeda S, Noto S, Igarashi A, Fukuda T, Saito S, Shimozuma K. Comparison of Value Set Based on DCE and/or TTO Data: Scoring for EQ-5D-5L Health States in Japan. Value in Health. 2016 Jul-Aug;19(5):648-54. PubMed
- Malaysia: Shafie AA; Vasan Thakumar A; Lim CJ;Luo N; Rand-Hendriksen K; Yusof FA. EQ-5D-5L Valuation for the Malaysian Population. PharmacoEconomics. 2019 May;37(5):715-725. doi: 10.1007/s40273-018-0758-7. PubMed
- Mexico: Gutierrez-Delgado C, Galindo-Suárez RM, Cruz-Santiago C, Shah K, Papadimitropoulos M, Feng Y, Zamora B, Devlin N. EQ-5D-5L Health-State Values for the Mexican Population. Appl Health Econ Health Policy. 2021 Nov;19(6):905-914. doi: 10.1007/s40258-021-00658-0. Epub 2021 Jun 26. PubMed
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EQ-5D-Y-3L value set data

Description

Y3L

EQ-5D-Y-3L value set calculation data for Belgium, Brazil, China, Germany, Hungary, Indonesia, Japan, Netherlands, Slovenia and Spain.

Usage

Y3L

Format

An object of class data. frame with 14 rows and 10 columns.

Source

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