

# Package 'eq5d'

February 27, 2026

**Type** Package

**Title** Methods for Analysing 'EQ-5D' Data and Calculating 'EQ-5D' Index Scores

**Version** 0.16.2

**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 (<https://euroqol.org/>), 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://euroqol.org/information-and-support/euroqol-instruments/eq-5d-3l/>) or a five-level (EQ-5D-5L, <https://euroqol.org/information-and-support/euroqol-instruments/eq-5d-5l/>) 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. 33 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](https://doi.org/10.1007/1-4020-5511-0)) and Szende et al (2014) ([doi:10.1007/978-94-007-7596-1](https://doi.org/10.1007/978-94-007-7596-1)), 48 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](https://doi.org/10.1016/j.jval.2012.02.008)), the crosswalk value sets for Bermuda, Jordan and Russia and the van Hout (2021) reverse crosswalk value sets. 12 EQ-5D-Y3L 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](https://doi.org/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.

**License** MIT + file LICENSE

**Encoding** UTF-8

**Depends** R (>= 3.5.0), lifecycle, rlang

**Suggests** testthat, shiny, DT, mime, readxl, ggplot2, ggiraph,  
ggiraphExtra, shinycssloaders, shinyWidgets, FSA, PMCMRplus,  
knitr, rmarkdown, covr

**URL** <https://github.com/fragla/eq5d>

**BugReports** <https://github.com/fragla/eq5d/issues>

**RoxygenNote** 7.3.2

**VignetteBuilder** knitr

**Language** en-GB

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**Author** Fraser Morton [aut, cre],  
Jagtar Singh Nijjar [aut]

**Maintainer** Fraser Morton <[fraser.morton@glasgow.ac.uk](mailto:fraser.morton@glasgow.ac.uk)>

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CW *EQ-5D-5L Crosswalk data*

---

### 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 13 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. PMID: 22867780.

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/s10198024017012. Epub ahead of print. PMID: 38982011.

Al Rabayah A, Roudijk B, Purba FD, Rencz F, Jaddoua S, Siebert U. Valuation of the EQ-5D-3L in Jordan. *Eur J Health Econ.* 2024 Sep 3. doi:10.1007/s1019802401712z. Epub ahead of print. PMID: 39225720.

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/s1113602102804-6. Epub ahead of print. PMID: 33713323.

[EQ-5D-5L Crosswalk Index Value Sets](#)

---

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/s40273022012187. Epub 2022 Nov 30. PMID: 36449173.

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. PMID: 28778350.

[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.

## 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/s40273022012187. Epub 2022 Nov 30. PMID: 36449173.

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. PMID: 28778350.

[NICE DSU mapping website.](#)

---

 eq5d

*Calculate EQ-5D index scores*


---

## Description

Wrapper for eq5d3l, eq5d5l and eq5dy3l. 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 representing 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. Not required for EQ-5D-Y-3L.  |
| 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 <a href="#">eq5dmap</a> for valid options. "digits" can also be used to return scores with more precision. |

**Value**

a numeric vector of utility index scores.

**Examples**

```
#EQ-5D-5L single utility score by dimension
eq5d(scores=c(M0=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(M0=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(
  M0=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(
  state=c(11111,12121,23232,33333)
)

#Calculation of utility scores using a data.frame with five digit states
eq5d(scores=scores.df2, type="TTO", 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(
  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)
```

---

eq5d3l                      *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", digits = 3)
```

**Arguments**

|                      |  |
|----------------------|--|
| <code>scores</code>  | numeric with names MO, SC, UA, PD and AD representing Mobility, Self-care, Usual activities, Pain/discomfort and Anxiety/depression. |
| <code>type</code>    | 3L values set type. Either TTO or VAS.   |
| <code>country</code> | value set country.   |
| <code>digits</code>  | number of decimal places to return.  |

**Value**

calculated utility index score.

**Examples**

```
eq5d3l(scores=c(MO=1,SC=2,UA=3,PD=1,AD=3), type="VAS", country="UK")  
eq5d3l(scores=c(MO=3,SC=2,UA=3,PD=2,AD=3), type="TTO", country="Germany")
```

---

eq5d5l                      *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", digits = 3)
```

**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.   |
| digits  | number of decimal places to return.  |

**Value**

calculated utility index score.

**Examples**

```
eq5d5l(scores=c(M0=1,SC=2,UA=3,PD=4,AD=5), country="England")
eq5d5l(scores=c(M0=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 | boolean 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", "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**

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

---

 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**

|                      |  |
|----------------------|--|
| <code>scores</code>  | numeric with names MO, SC, UA, PD and AD representing Mobility, Self-care, Usual activities, Pain/discomfort and Anxiety/depression. |
| <code>country</code> | 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, ...)
```

### Arguments

|                             |   |
|-----------------------------|---|
| <code>data</code>           | 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. |
| <code>version</code>        | string of value "3L" or "5L" to indicate instrument version.  |
| <code>counts</code>         | logical show absolute counts in the summary table. Default is FALSE, which shows percentages for each EQ-5D dimension.  |
| <code>by</code>             | character specifying the column in the data.frame by which to group the results.  |
| <code>ignore.invalid</code> | boolean whether to ignore invalid scores. TRUE returns NA, FALSE throws an error.   |
| <code>...</code>            | 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

```
dat <- data.frame(
  matrix(
    sample(1:3,5*12, replace=TRUE),12,5,
    dimnames=list(1:12,c("MO", "SC", "UA", "PD", "AD"))
  ),
  Sex=rep(c("Male", "Female"))
)

eq5dds(dat, version="3L")
eq5dds(dat, version="3L", counts=TRUE)

eq5dds(dat, version="3L", by="Sex")
```

---

|         |  |
|---------|--|
| eq5dmap | <i>Calculate utility index scores by mapping between EQ-5D-3L and EQ-5D-5L</i> |
|---------|--|

---

### 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)
```

### 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  | bandwidth 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", method = "VH", digits = 3)
```

### Arguments

|                      |  |
|----------------------|--|
| <code>scores</code>  | numeric with names MO, SC, UA, PD and AD representing Mobility, Self-care, Usual activities, Pain/discomfort and Anxiety/depression. |
| <code>country</code> | value set country.   |
| <code>method</code>  | crosswalk values to use. Either "VH" (Van Hout, 2021) or "EQ" (EuroQol 2019 values). The van Hout method is recommended.             |
| <code>digits</code>  | number of decimal places to return.  |

### 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 `'eq5dy3l'` 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.

---

|         |  |
|---------|--|
| eq5dy3l | <i>Calculate EQ-5D-Y-3L index scores</i> |
|---------|--|

---

**Description**

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

**Usage**

```
eq5dy3l(scores, country = NULL, digits = 3)
```

**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.   |
| digits  | number of decimal places to return.  |

**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()
)
```

**Arguments**

|                |  |
|----------------|--|
| scores         | a data.frame 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**

```
scores <- data.frame(MO=c(1,1,1,1,1), SC=c(1,2,1,2,1),
                    UA=c(1,2,3,2,1), PD=c(3,2,1,2,3), AD=c(3,3,3,3,3))
get_health_states_from_dimensions(scores, version="5L")
```

---

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. |
| 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 valuesets.                    |
| 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", "eq5d3l_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="TT0")
head(res)
```

---

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, ...)
```

**Arguments**

|                |   |
|----------------|---|
| scores         | 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 | boolean 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", "eq5d3l_example.csv", package="eq5d"))
hsdi(dat, version="3L")
```

---

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".                                   |

**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**

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

---

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.

**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)
```

---

ps

---

*Calculate the Probability of Superiority*


---

**Description**

Calculate the Probability 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 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.  |

**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")
```

---

RCW

*EQ-5D-3L Reverse Crosswalk data (deprecated)*

---

**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 published on the EuroQol analysis tools webpage based on reverse engineering of van Hout et al (2012)

**Usage**

RCW

**Format**

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

**Source**

[Reverse crosswalk datasets](#)

---

RCWVH

*EQ-5D-3L Reverse Crosswalk data*

---

**Description**

Reverse Crosswalk index value table to calculate EQ-5D-5L indices from EQ-5D-3L data using the van Hout et al (2021) method.

**Usage**

RCWVH

**Format**

An object of class `matrix` (inherits from `array`) with 243 rows and 48 columns.

**Source**

[doi:10.1016/j.jval.2021.03.009](https://doi.org/10.1016/j.jval.2021.03.009)

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.

**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)
```

---

|            |                                     |
|------------|-------------------------------------|
| shiny_eq5d | <i>Launch shiny EQ-5D interface</i> |
|------------|-------------------------------------|

---

**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)
```

---

|     |                                    |
|-----|------------------------------------|
| TTO | <i>EQ-5D-3L TTO value set data</i> |
|-----|------------------------------------|

---

**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 (2006), Netherlands (2026), 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 33 columns.

**Source**

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.15244733.2008.00468.x. Epub 2008 Nov 12. PMID: 19900257.
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- **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/s10198024-017012. Epub ahead of print. PMID: 38982011.
- **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 Health Reg Issues*. 2013 Dec;2(3):405-412. doi: 10.1016/j.vhri.2013.01.009. Epub 2013 Mar 13. Erratum in: *Value Health Reg Issues*. 2016 Dec;11:85-87. doi:10.1016/j.vhri.2016.12.001. PMID: 29702778.
- **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. doi:10.1371/journal.pone.0031115. Epub 2012 Feb 6. PMID: 22328929.
- **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 Health*. 2011 Dec;14(8):1135-41. doi:10.1016/j.jval.2011.09.002. Epub 2011 Nov 6. PMID: 22152184.
- **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. PMID: 25128053.
- **Denmark:** Wittrup-Jensen KU, Lauridsen J, Gudex C, Pedersen KM. Generation of a Danish TTO value set for EQ-5D health states. *Scand J Public Health*. 2009 Jul;37(5):459-66. doi:10.1177/1403494809105287. Epub 2009 May 1. PMID: 19411320.
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- **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/s101980110351x. Epub 2011 Sep 21. PMID: 21935715.

- **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/s101980040264z. PMID: 19787848.
- **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. PMID: 32940242.
- **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. PMID: 23947975.
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- **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/s4027301401421. PMID: 24519603.
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---

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, IVP (International Valuation Protocol of Ramos-Goñi et al (2020)) 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 Y3L.   |
| 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.  |

**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.

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VT

*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, Ghana, HongKong, Hungary, India, Indonesia, Iran, Ireland, Italy, Japan, Malaysia, Mexico, Morocco, Netherlands, NewZealand, Norway, Peru, Philippines, Poland, Portugal, Romania, SaudiArabia, Slovenia, SouthKorea, Spain, Sweden, Taiwan, Thailand, Uganda, UAE, Uruguay, USA, Vietnam and Western Preference Pattern (WePP).

**Usage**

VT

**Format**

An object of class `data.frame` with 37 rows and 48 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/s40273023012430. Epub ahead of print. PMID: 36720793.
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Y3L

*EQ-5D-Y-3L value set data*

### Description

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

### Usage

Y3L

### Format

An object of class `data.frame` with 14 rows and 12 columns.

### Source

- **Australia:** Pan T, Roudijk B, Devlin N, Mulhern B, Norman R. An Australian Value Set for the EQ-5D-Y-3L. *Health Qual Life Outcomes.* 2025 Jul 15;23(1):72. doi:10.1186/s12955-02502402x. PMID: 40660259.
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- **Spain:** Ramos-Goñi JM, Oppe M, Estévez-Carrillo A, Rivero-Arias O; IMPACT HTA HRQoL Group. Accounting for Unobservable Preference Heterogeneity and Evaluating Alternative Anchoring Approaches to Estimate Country-Specific EQ-5D-Y Value Sets: A Case Study Using Spanish Preference Data. *Value Health*. 2022 May;25(5):835-843. doi:10.1016/j.jval.2021.10.013. Epub 2021 Dec 6. PMID: 35500952.
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