

Package ‘score’

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Type Package

Title A Package to Score Behavioral Questionnaires

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Author Jaejoon Song

Maintainer Jaejoon Song <jjsong2@mdanderson.org>

Description

Provides routines for scoring behavioral questionnaires. Includes scoring procedures for the 'International Physical Activity Questionnaire (IPAQ)' <<http://www.ipaq.ki.se>>. Compares physical functional performance to the age- and gender-specific normal ranges.

Depends R (>= 2.10), msm (>= 1.5)

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ipaq	<i>Scores 'International Physical Activity Questionnaire (IPAQ)'</i>
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Description

Scores 'International Physical Activity Questionnaire (IPAQ)' short form.

Usage

```
ipaq(ipaqdata)
```

Arguments

ipaqdata Data which consists of thirteen columns:

Column 1:	ID
Column 2:	Weight
Column 3:	VigDays: Number of days doing vigorous physical activity per week
Column 4:	VigHours: Number of hours in vigorous physical activity per day
Column 5:	VigMin: Number of minutes in vigorous physical activity per day
Column 6:	ModDays: Number of days doing moderate physical activity per week
Column 7:	ModHours: Number of hours in moderate physical activity per day
Column 8:	ModMin: Number of minutes in moderate physical activity per day
Column 9:	WalkDays: Number of days walking per week
Column 10:	WalkHours: Number of hours walking per day
Column 11:	WalkMin: Number of minutes in walking per day
Column 12:	SitHours: Number of hours sitting per day
Column 13:	SitMin: Number of minutes sitting per day

Value

Three additional columns [MET, kilocalories, pacat] are provided, to the data supplied to the function.

MET:	Metabolic Equivalent of Task.
kilocalories:	Kilocalories are computed from MET-minutes.
pacat:	Physical activity classification into 'Low', 'Moderate', or 'High'.

Author(s)

Jaejoon Song <jjsong2@mdanderson.org>

References

Craig, C.L., et al. International physical activity questionnaire: 12-country reliability and validity. *Med Sci Sports Exerc*, 2003. 35(8): p. 1381-95.

The International Physical Activity Questionnaire. (2015, June 1). Retrieved from <http://www.ipaq.ki.se>

Examples

```
## Generating a random IPAQ data for illustration
set.seed(1234)
n <- 20
ID <- rep(1:n)
weight <- rtnorm(n, mean=75, sd=15, lower=40, upper=120)
VigDays <- sample(rep(0:2),n,replace=TRUE)
VigHours <- sample(rep(0:1),n,replace=TRUE)
VigMin <- sample(rep(0:60),n,replace=TRUE)
VigHours <- ifelse(VigDays==0,0,VigHours)
VigMin <- ifelse(VigDays==0,0,VigMin)
ModDays <- sample(rep(0:3),n,replace=TRUE)
ModHours <- sample(rep(0:2),n,replace=TRUE)
ModMin <- sample(rep(0:60),n,replace=TRUE)
ModHours <- ifelse(ModDays==0,0,ModHours)
ModMin <- ifelse(ModDays==0,0,ModMin)
WalkDays <- sample(rep(0:7),n,replace=TRUE)
WalkHours <- sample(rep(0:2),n,replace=TRUE)
WalkMin <- sample(rep(0:60),n,replace=TRUE)
WalkHours <- ifelse(WalkDays==0,0,WalkHours)
WalkMin <- ifelse(WalkDays==0,0,WalkMin)
SitHours <- sample(rep(1:14),n,replace=TRUE)
SitMin <- sample(rep(1:60),n,replace=TRUE)

sampleIPAQ <- data.frame(ID, weight,
                          VigDays, VigHours, VigMin,
                          ModDays, ModHours, ModMin,
                          WalkDays, WalkHours, WalkMin,
                          SitHours, SitMin)

# Now scoring the data
output <- ipaq(ipaqdata=sampleIPAQ)
```

pfnorm

Compares physical functional performance to normal ranges

Description

Compares physical functional performance to the age- and gender-specific normal range scores from the Rikli and Jones Senior Fitness Test Manual. Note that the manual provides normative values for seniors aged between 60-94. Comparison to the norms will only be performed for individuals aged between 60 to 94.

Usage

```
pfnorm(data)
```

Arguments

data Data frame which consists of six columns:

- Column 1: Age
- Column 2: Gender (F: female, M: male)
- Column 3: Number of Steps
- Column 4: Number of full stands
- Column 5: Mean of 8 foot up and go trials
- Column 6: Mean of left and right armcurls

Value

Four additional columns [StepsNorm, StandNorm, UpgoNorm, ArmcurlNorm] are provided, to the data supplied to the function. The columns indicate whether the individuals' physical performance meets the norm or is lower or higher than the norm.

Author(s)

Jaejoon Song <jjsong2@mdanderson.org>

References

Rikli, R. E. and Jones, C. J. (1999). Development and validation of a functional fitness test for community-residing older adults. *Journal of Aging and Physical Activity*, 7, 129-61.

Examples

```
# Generating a random physical performance data for illustration
n <- 20
ID <- rep(1:n)
Age <- rtnorm(n, mean=75, sd=15, lower=60, upper=94)
Gender <- sample(c("F", "M"), n, replace=TRUE)
NumberOfSteps <- sample(rep(0:150), n, replace=TRUE)
Numberoffullstands <- sample(rep(0:20), n, replace=TRUE)
UpGo8ftmean <- rtnorm(n, mean=7.5, sd=4, lower=3, upper=30)
armcurlR_Lmean <- rnorm(n, mean=14, sd=4)

samplePerf <- data.frame(ID, Age, Gender,
                          NumberOfSteps, Numberoffullstands,
                          UpGo8ftmean, armcurlR_Lmean)

# Now comparing the physical performance test to the norm
normCat <- pfnorm(samplePerf)
```

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