

Package ‘score’

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Type Package

Title A Package to Score Behavioral Questionnaires

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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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Contents

ipaq	1
pfnorm	3

Index	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)

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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)

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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)
```

Index

* **IPAQ**

ipaq, 1

* **fitness**

pfnorm, 3

ipaq, 1

pfnorm, 3