03/20/09 10:55:47

readme.txt

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Calculation of FEV/height percentiles for Cystic Fibrosis patients
Version 2.11
Released Mar. 20, 2009
(c) Michal Kulich 2003, 2009
This is a collection of R functions which convert
     (1) between FEV1 values in liters and FEV1 quantiles
     (2) between height values in cm and height quantiles
What is new:
    Version 2.11 includes minor bug fixes
    Version 2.10 allows to choose the reference period on which the
    equations are based.
    Four different reference periods are available:
        1994-2001 (used in all earlier versions)
        1999-2006 (new default)
        1994-2000 (early period)
        2001-2006 (late period)
Installation and usage:
    1. Unpack fevcalc_2.11.zip into the directory you will be working in.
    2. Start R
    3. Run
       > source("fevcalc-func.r")
     4. Use fevperc() to convert FEV1, htperc() to convert height
Contents of fevcalc.zip
  - readme.txt
                     (this file)
  - fevcalc-func.r
                     (R functions)
  - examples.r
                     (examples of usage)
  - fevhtcoef_99_06.RData
                          (data files with coefficients for different periods)
   fevhtcoef_94_01.RData
   fevhtcoef_94_00.RData
   fevhtcoef_01_06.RData
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DOCUMENTATION FOR fevperc():

fevperc(fevL=fevar,quan=quanvar,age=agevar,ht=htvar,sex=sexvar,period)

Converts between FEV quantiles and FEV in liters

INPUT:

fevL:	FEV1 in liters (vector)
quan:	quantiles (scalar or vector; values 0.01-0.99)
age:	age values (vector; 6-40 years)
ht:	height values (vector; 105-190 cm [180 in women])
sex:	sex values (vector, same length as ht)
	permissible codes: 1,'m','M','Male','male'
	0,'f','F','Female','female'
period:	period of reference equation
	permissible values: "94_01","99_06" (moving 8-year window)
	"94_00","01_06" (early vs. late period)
	Default is "99_06".

Provide either fevL or quan, not both
Provide age or ht or both
Each age has specific permissible ranges of height; if height falls
 outside the range, empty value is returned
Age, ht, sex must have equal length. Scalars are replicated as needed.

OUTPUT:

REMARK:

This function loads coefficient datasets fevhtcoef_xx_yy.Rdata from current directory

DOCUMENTATION FOR htperc():

htperc(ht=htvar,quan=quanvar,age=agevar,sex=sexvar,period)

Converts between height quantiles and height in cm

INPUT:

ht:	height values (vector)
quan:	quantiles (scalar or vector; values 0.01-0.99)
age:	age values (vector; 0-40 years)
sex:	sex values (vector)
	permissible codes: 1,'m','M','Male','male'
	0,'f','F','Female','female'
period:	period of reference equation
	permissible values: "94_01","99_06" (moving 8-year window)
	"94_00","01_06" (early vs. late period)
	Default is "99_06".

Provide either ht or quan, not both Provide age or ht or both Age, ht, sex must have equal length. Scalars are replicated as needed.

OUTPUT:

REMARK:

This function loads coefficient datasets fevhtcoef_xx_yy.Rdata from current directory