Package 'akiFlagger' October 12, 2022

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Title Flags Acute Kidney Injury (AKI)
Version 0.3.0
Description Flagger to detect acute kidney injury (AKI) in a patient dataset.
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Encoding UTF-8
LazyData true
RoxygenNote 7.1.1
Imports dplyr, data.table, zoo, shiny
Suggests testthat
Depends R (>= $3.5.0$)
<pre>URL https://github.com/isaranwrap/akiFlagger</pre>
BugReports https://github.com/isaranwrap/akiFlagger/issues
NeedsCompilation no
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R topics documented:
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returnAKIpatients

Flag patients for AKI

Description

Add in the AKI column in a patient dataframe according to the KDIGO criterion

Usage

```
returnAKIpatients(
  dataframe,
  HB_trumping = FALSE,
  eGFR_impute = FALSE,
  window1 = as.difftime(2, units = "days"),
  window2 = as.difftime(7, units = "days"),
  padding = as.difftime(0, units = "days"),
  add_min_creat = FALSE,
  add_baseline_creat = FALSE,
  add_imputed_admission = FALSE,
  add_imputed_encounter = FALSE
)
```

Arguments

dataframe	patient dataset	
HB_trumping	boolean on whether to have historical baseline creatinine values trump the local minimum creatinine values	
eGFR_impute	boolean on whether to impute missing baseline creatinine values with CKD-EPI equation	
window1	rolling window length of the shorter time window; defaults to 48 hours	
window2	rolling window length of the longer time window; defaults to 162 hours	
padding	padding to add to rolling windows; defaults to 0 hours	
add_min_creat	boolean on whether to add the intermediate columns generated during calculation	
add_baseline_creat		
	boolean on whether to add the baseline creatinine values in	
add_imputed_admission		
	boolean on whether to add the imputed admission column in	
add_imputed_encounter		
	boolean on whether to add the imputer encounter id column in	

Value

```
patient dataset with AKI column added in #Imports
```

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Examples

returnAKIpatients(toy)

runGUI

GUI Shiny App

Description

GUI Shiny App

Usage

runGUI()

toy

Toy dataset

Description

Since real patient data is probably protected health information (PHI), this toy dataset contains all the relevant columns the flagger takes in.

Usage

toy

Format

A data frame (1078 x 6) consisting of relevant AKI measurements for patients

patient_id int, the patient identifier

inpatient boolean, whether or not the creatinine measurement taken was an inpatient measurement

time POSIXct, the time at which the creatinine measurement was taken

creatinine float, the creatinine value of the measurement taken @source http://akiflagger.readthedocs.io/

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toy.demo

Toy dataset

Description

Since real patient data is probably protected health information (PHI), this toy dataset contains all the relevant columns the flagger takes in.

Usage

toy.demo

Format

A data frame (1078 x 6) consisting of relevant AKI measurements for patients

patient_id int, the patient identifier

age float, the age of the patient

sex boolean, whether the patient is female or not

race boolean, whether the patient is black or not

inpatient boolean, whether or not the creatinine measurement taken was an inpatient measurement

time POSIXct, the time at which the creatinine measurement was taken

creatinine float, the creatinine value of the measurement taken @source http://akiflagger.readthedocs.io/

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