### Package ‘akiFlagger’

**Title** Flags Acute Kidney Injury (AKI)

**Version** 0.3.0

**Description** Flagger to detect acute kidney injury (AKI) in a patient dataset.

**License** MIT + file LICENSE

**Encoding** UTF-8

**LazyData** true

**RoxygenNote** 7.1.1

**Imports** dplyr, data.table, zoo, shiny

**Suggests** testthat

**Depends** R (>= 3.5.0)

**URL** [https://github.com/isaranwrap/akiFlagger](https://github.com/isaranwrap/akiFlagger)

**BugReports** [https://github.com/isaranwrap/akiFlagger/issues](https://github.com/isaranwrap/akiFlagger/issues)

**NeedsCompilation** no

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**Repository** CRAN

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Flag patients for AKI

**Description**

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

**Usage**

```r
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
Examples

returnAKIpatients(toy)

---

**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/
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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