

# Package ‘akiFlagger’

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

**Version** 0.2.0

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

**License** MIT + file LICENSE

**Encoding** UTF-8

**LazyData** true

**Roxygen** list(markdown = TRUE)

**RoxygenNote** 7.1.1

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

**Suggests** testthat

**Depends** R (>= 2.10)

**URL** <https://github.com/isaranwrap/akiFlagger>

**BugReports** <https://github.com/isaranwrap/akiFlagger/issues>

**NeedsCompilation** no

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returnAKIpatients	<i>Flag patients for AKI</i>
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### 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

### Examples

```
returnAKIpatients(toy)
```

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toy	<i>Toy dataset</i>
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**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

**enc** int, the encounter identifier

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

**admission** POSIXct, the time the patient was admitted

**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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