## 07/18/2023

Matt/Abi code-snippet to guide one using 'cat\_trauma' function

```
# install packages
# install.packages('icdpicr')
# install.packages('dplyr')
# install.packages('readr')
# install.packages('tidyr')
# clear memory
rm(list = ls())
# use libraries
library(icdpicr)
library(dplyr)
## Attaching package: 'dplyr'
## The following objects are masked from 'package:stats':
##
##
       filter, lag
## The following objects are masked from 'package:base':
##
##
       intersect, setdiff, setequal, union
library(readr)
library(tidyr)
# import dataset or use given "injury" dataset
# very large dataset!
dim(injury)
## [1] 100477
                  11
# demonstrate using a sample
inj = injury[1:100,1:3]
dim(inj)
## [1] 100
df_score = cat_trauma(inj,"dx",icd10=TRUE,i10_iss_method="roc_max_NIS",calc_method = 1,verbose=FALSE)
df_score[1:3,]
##
          dx1 sev_1
                        issbr_1
                                     dx2 sev_2
                                                  issbr_2
                                                               dx3 sev_3 issbr_3
                                            NA
## 1 S72.342A
              1 Extremities
                                                     <NA>
                                                                            <NA>
                                    <NA>
                                                              <NA>
                                                                      NA
```

```
## 2 S05.22XA
                                                                             <NA>
                 1
                           Face
                                     <NA>
                                             NA
                                                     <NA>
                                                              <NA>
                                                                       NA
                      Head/Neck S00.03XA
## 3 S00.01XA
                  1
                                              2 Head/Neck S00.11XA
                                                                        2
                                                                             Face
    mxaisbr General mxaisbr HeadNeck mxaisbr Face mxaisbr Extremities
## 1
                                     0
## 2
                   0
                                     0
                                                  1
                                                                       0
## 3
                   0
                                     2
                                                  2
                                                                       0
## mxaisbr_Chest mxaisbr_Abdomen maxais riss niss ecode_1 mechmaj1 mechmin1
                 0
                                 0
                                                        <NA>
                                                                  <NA>
## 1
                                         1
                                              1
                                                   1
## 2
                 0
                                  0
                                         1
                                              1
                                                   1
                                                         <NA>
                                                                  <NA>
                                                                           <NA>
## 3
                 0
                                 0
                                         2
                                              8
                                                   9
                                                         <NA>
                                                                  <NA>
                                                                           <NA>
     intent1 ecode_2 mechmaj2 mechmin2 intent2 ecode_3 mechmaj3 mechmin3 intent3
                                                                              <NA>
## 1
        <NA>
                <NA>
                         <NA>
                                   <NA>
                                           <NA>
                                                   <NA>
                                                            <NA>
                                                                      <NA>
## 2
        <NA>
                <NA>
                         <NA>
                                   <NA>
                                           <NA>
                                                   <NA>
                                                             <NA>
                                                                      <NA>
                                                                              <NA>
## 3
        <NA>
                <NA>
                         <NA>
                                           <NA>
                                                   <NA>
                                                                      <NA>
                                                                              <NA>
                                   <NA>
                                                             <NA>
##
     ecode_4 mechmaj4 mechmin4 intent4
                                             Pmort
## 1
        <NA>
                 <NA>
                          <NA>
                                   <NA> 0.01385792
## 2
        <NA>
                 <NA>
                           <NA>
                                   <NA> 0.01441280
## 3
        <NA>
                 <NA>
                           <NA>
                                   <NA> 0.01767370
```

df\_score\$Pmort[1:30]

```
## [1] 0.013857916 0.014412795 0.017673701 0.026078454 0.027839150 0.024364215

## [7] 0.005516156 0.037222518 0.021037152 0.012338552 0.034120587 0.008390491

## [13] 0.012887174 0.011312456 0.009349195 0.021670947 0.010596986 0.012476598

## [19] 0.011782806 0.012988879 0.015681288 0.023933817 0.009871213 0.011410342

## [25] 0.028842248 0.011010488 0.025939057 0.009774662 0.009349195 0.053184548
```