```r
# install.packages('icdpicr')
# install.packages('dplyr')
# install.packages('readr')
# install.packages('tidyr')
rm(list = ls())

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
```

```r
library(readr)
library(tidyr)

df <- read.csv("df.csv")

df_out <- cat_trauma(df[1:5,1:3], "DX", icd10 = FALSE)
df_out
```

```
##   ID   DX1 sev_1 issbr_1   DX2 sev_2 issbr_2 mxaisbr_General mxaisbr_HeadNeck
## 1  1 S06.7    NA    <NA> 804.0    NA    <NA>               0               0
## 2  2 801.0    NA    <NA> S06.7    NA    <NA>               0               0
## 3  3 860.0     3   Chest S06.2    NA    <NA>               0               0
## 4  4 S06.9    NA    <NA> S06.7    NA    <NA>               0               0
## 5  5 803.0    NA    <NA> 852.0    NA    <NA>               0               0
##   mxaisbr_Face mxaisbr_Extremities mxaisbr_Chest mxaisbr_Abdomen maxais riss
## 1            0                   0            0               0      0    0
## 2            0                   0            0               0      0    0
## 3            0                   0            3               0      3    9
## 4            0                   0            0               0      0    0
## 5            0                   0            0               0      0    0
##   niss ecode_1 mechmaj1 mechmin1 intent1 ecode_2 mechmaj2 mechmin2 intent2
## 1   NA    <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>
## 4   NA    <NA>     <NA>     <NA>    <NA>    <NA>     <NA>     <NA>    <NA>
## 5   NA    <NA>     <NA>     <NA>    <NA>    <NA>     <NA>     <NA>    <NA>
##   ecode_3 mechmaj3 mechmin3 intent3 ecode_4 mechmaj4 mechmin4 intent4
## 1    <NA>     <NA>     <NA>    <NA>    <NA>     <NA>     <NA>    <NA>
## 2    <NA>     <NA>     <NA>    <NA>    <NA>     <NA>     <NA>    <NA>
## 3    <NA>     <NA>     <NA>    <NA>    <NA>     <NA>     <NA>    <NA>
## 4    <NA>     <NA>     <NA>    <NA>    <NA>     <NA>     <NA>    <NA>
## 5    <NA>     <NA>     <NA>    <NA>    <NA>     <NA>     <NA>    <NA>
```

```r
df_long <- df %>%
  pivot_longer(cols = starts_with("DX"),
               names_to = "diagnosis_number",
```

```
                values_to = "icd_code")
```