## Mængde

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```
library(devtools)
## Loading required package: usethis
install_github('legendenomgeorg/VitalDBR/VitalDBR', force=TRUE)
## Downloading GitHub repo legendenomgeorg/VitalDBR@HEAD
## * checking for file '/private/var/folders/81/jf2m8tyj02q6bhybvrfzfw_c0000gn/T/Rtmpj0Z8m0/remotes10bf
## * preparing 'VitalDBR':
## * checking DESCRIPTION meta-information ... OK
## * checking for LF line-endings in source and make files and shell scripts
## * checking for empty or unneeded directories
## Omitted 'LazyData' from DESCRIPTION
## * building 'VitalDBR_0.1.0.tar.gz'
library(VitalDBR)
library("tidyverse")
## -- Attaching packages -----
                                   ----- tidyverse 1.3.1 --
## v ggplot2 3.3.5 v purrr
                              0.3.4
## v tibble 3.1.6 v dplyr 1.0.8
## v tidyr 1.2.0 v stringr 1.4.0
## v readr
          2.1.2
                   v forcats 0.5.1
## -- Conflicts ----- tidyverse conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()
                   masks stats::lag()
library(readr)
Først har vi alle cases hvor de generelle ting er opfyldt:
cases <- VitalDBR::load_VDB("https://api.vitaldb.net/cases") %>%
     dplyr::filter(approach=="Open",
               department == "General surgery",
               ane_type=="General") %>%
     dplyr::select(caseid, death_inhosp, icu_days, age, sex, asa, emop, bmi)
head(cases)
##
    caseid death_inhosp icu_days age sex asa emop bmi
## 1
                             0 77
                                             0 26.3
                    0
                                    M
                                         2
## 2
         2
                     0
                             0 54 M 2
                                             0 19.6
                            13 66 M 3
## 3
         5
                    0
                                           1 20.4
                            0 81 F 2 0 27.4
## 4
         8
                    0
## 5
                             4 46
                                    F
                                        2
                                             0 28.4
        12
```

```
## 6
         16
                                 0 57
                                         M
                                                   0 26.2
nrow(cases)
## [1] 2805
Der er cirka 2800 rows
death <- cases %>% dplyr::filter(death_inhosp==1)
head(death)
##
     caseid death_inhosp icu_days age sex asa emop bmi
                                    64
## 1
        410
                                 0
                                         Μ
                                              2
                                                   0 21.2
                        1
## 2
        465
                        1
                                 0
                                    42
                                         Μ
                                                   0 20.3
## 3
        494
                                 0
                                    54
                                         F
                                                   0 17.2
                        1
                                              1
## 4
       1927
                        1
                                 0
                                    45
                                         F
                                              2
                                                   0 22.5
## 5
       2035
                                 0
                                    71
                                         М
                                              3
                                                   0 21.4
                        1
## 6
       2571
                                 0
                                    27
                                         М
                                              2
                                                   0 22.6
nrow(death)
## [1] 33
Og kun cirka 33 der er døde
Derefter har vi alle hvor det kun er art
only_art <- VitalDBR::load_VDB("https://api.vitaldb.net/trks") %>%
    dplyr::filter(tname == "SNUADC/ART")
head(only_art)
##
     caseid
                 tname
                                                               tid
          1 SNUADC/ART 724cdd7184d7886b8f7de091c5b135bd01949959
## 2
          3 SNUADC/ART 54be86b8ba1eb9c42a572b5824310eb6c9f19aef
## 3
          4 SNUADC/ART e28777c4706fe3a5e714bf2d91821d22d782d802
          7 SNUADC/ART a693647dfcc9b1ba19042b05de10276bd4f3d839
## 4
## 5
         10 SNUADC/ART 58d78f57ffad2ce71fea9cb8e9df2e8fdeeb7556
         12 SNUADC/ART 548e82b021822840d9af99893651cfcfea198510
nrow(only art)
## [1] 3645
Og her joinet på det originale table
merged <- merge(x=only_art,y=cases,by="caseid")</pre>
death_merged <- merged %>% dplyr::filter(death_inhosp==1)
head(death_merged)
##
     caseid
                 tname
                                                               tid death_inhosp
       3101 SNUADC/ART 0a6f12aed42abad3b0f3600e482fe11f2f6ea23f
## 1
                                                                              1
## 2
       3136 SNUADC/ART c63fd71b67646570bc700a6c0acb65779adc1ba3
                                                                              1
## 3
       3230 SNUADC/ART b0fb3dca1d79917454edcb5e0bf6b4c241ac6c22
                                                                              1
## 4
       3407 SNUADC/ART 1c6005de5881d6b88a4023e69ff8c3af3faf4d9b
                                                                              1
       3486 SNUADC/ART 8e56dd60d77c97dbc72580a3fd43404648c614be
## 5
                                                                              1
## 6
       3527 SNUADC/ART 75a72a4ec66dbd1d6e7c2767aff7c92ca1651d7c
##
     icu days age sex asa emop bmi
            1 22.0
## 1
                     M NA
                               1 29.5
## 2
            5 81.0
                     F
                          3
                               1 20.5
                     F
## 3
           38 0.7
                          4
                               1 21.7
## 4
            0 60.0
                    F
                               1 21.4
```

```
## 5
           38 0.7
                   F 4
                               1 21.7
## 6
           25 82.0
                               1 26.7
                    F 4
nrow(death_merged)
## [1] 23
Hvor der både er awp og art
both <- VitalDBR::load_VDB("https://api.vitaldb.net/trks") %>%
    dplyr::filter(tname == "Primus/AWP" | tname == "SNUADC/ART") %>%
    count(caseid) %>%
    dplyr::filter(n == 2)
head(both)
##
     caseid n
## 1
         1 2
          3 2
## 2
          4 2
## 3
## 4
          7 2
## 5
         10 2
## 6
         12 2
nrow(both)
## [1] 3629
Joinet på det originale og filtreret udfra om de er døde
merged <- merge(x=both,y=cases,by="caseid") %>% dplyr::select(-one_of("n"))
merged_both <- merged %>% dplyr::filter(death_inhosp==1)
head(merged_both)
##
     caseid death_inhosp icu_days age sex asa emop bmi
## 1
       3101
                                1 22.0
                                             NA
                                                   1 29.5
## 2
       3136
                                5 81.0
                                          F
                                              3
                                                   1 20.5
                       1
       3230
## 3
                       1
                                38 0.7
                                          F
                                              4
                                                   1 21.7
## 4
                                0 60.0
                                         F
                                              2
                                                   1 21.4
       3407
                       1
## 5
       3486
                       1
                                38 0.7
                                                   1 21.7
## 6
       3527
                                25 82.0
                                          F
                                                   1 26.7
                       1
nrow(merged_both)
## [1] 23
```