# alcohol-admins\_deprive-practice

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Exercise 2: For which health boards do we have data on alcohol-related hospital admissions for each deprivation quintile?

### Load packages

```
library(tidyverse)
## -- Attaching core tidyverse packages ----- tidyverse 2.0.0 --
## v dplyr 1.1.4
                      v readr
                                   2.1.5
## v forcats 1.0.0
                      v stringr
                                   1.5.1
## v ggplot2 3.5.1
                                   3.2.1
                     v tibble
## v lubridate 1.9.3
                       v tidyr
                                   1.3.1
## v purrr
              1.0.2
## -- Conflicts ----- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()
                  masks stats::lag()
## i Use the conflicted package (<a href="http://conflicted.r-lib.org/">http://conflicted.r-lib.org/</a>) to force all conflicts to become error
```

#### read in data

```
## chr (9): IntZone, IntZoneName, CA, CAName, HSCP, HSCPName, HB, HBName, Country
##
## i Use 'spec()' to retrieve the full column specification for this data.
## i Specify the column types or set 'show_col_types = FALSE' to quiet this message.
unique(depri_raw_data$geography_code)
## [1] "S08000020" "S08000029"
filter data and select geography_code
depri_health_board <- filter(inter_zone_codes, HB == 'S08000020' |</pre>
                                                                     HB == 'S08000029') %>%
  select(HB, HBName)
table(depri_health_board)
##
              HBName
## HB
               NHS Fife NHS Grampian
##
     S08000020
                      0
                                  132
     S08000029
                    104
depri_health_board_gb <- filter(depri_raw_data, geography_code == 'S08000020' | geography_code == 'S080
 select(geography_code,quintile)
Exercise 3: Create boxplots showing alcohol admissions for each deprivation quintile. Create a different plot
for each health board in the data set.
##prepare data
depri_quintile <- depri_raw_data %>%
  inner_join(inter_zone_codes, by=c('geography_code'='HB')) %>%
  select(HBName,quintile,indicator_measure) %>%
rename(health_board='HBName',admissions='indicator_measure')
## Warning in inner_join(., inter_zone_codes, by = c(geography_code = "HB")): Detected an unexpected ma
## i Row 1 of 'x' matches multiple rows in 'y'.
## i Row 1 of 'y' matches multiple rows in 'x'.
## i If a many-to-many relationship is expected, set 'relationship =
     "many-to-many" ' to silence this warning.
unique(depri_quintile)
## # A tibble: 214 x 3
                                       admissions
##
      health_board quintile
##
      <chr>
                   <chr>
                                            <db1>
## 1 NHS Grampian 1 - most deprived
                                            1289.
## 2 NHS Grampian 2
                                             673.
## 3 NHS Grampian 3
                                             380.
## 4 NHS Grampian 4
                                             286.
```

```
## 5 NHS Grampian 5 - least deprived 225.

## 6 NHS Grampian Total 556.

## 7 NHS Grampian 1 - most deprived 1473.

## 8 NHS Grampian 2 701.

## 9 NHS Grampian 3 487

## 10 NHS Grampian 4 307.

## # i 204 more rows
```

##box-plot alcohol admissions for each deprivation quintile

## Alcohol Admissions for Each Deprivation Quintile

