alcohol-admins_deprive-practice

JW

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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
                      v tibble
                                   3.2.1
## 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

```
depri_raw_data <- read_csv("alcohol-admissions_deprivation-data.csv")</pre>
```

```
## * '' -> '...13'
## * '' -> '...14'
## * '' -> '...15'
## * '' -> '...16'
## * '' -> '...17'
## * '' -> '...18'
## * ' '-> '...19'
inter_zone_codes <- read_csv("iz2011_codes_and_labels_21042020.csv")</pre>
## New names:
## Rows: 1279 Columns: 18
## -- Column specification
## ------ Delimiter: "," chr
## (10): IntZone, IntZoneName, CA, CAName, HSCP, HSCPName, HB, HBName, Coun... 1gl
## (8): ...10, ...11, ...12, ...13, ...14, ...15, ...16, ...17
## 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.
## * '' -> '...10'
## * '' -> '...11'
## * '' -> '...12'
## * '' -> '...13'
## * ' ' -> '...14'
## * '' -> '...15'
## * '' -> '...16'
## * '' -> '...17'
## * '' -> '...18'
unique(depri_raw_data$geography_code)
## [1] "S08000020" "S08000029"
filter data and show health boards in deprive table
inter1 <- inter_zone_codes %>%
 select(HB, HBName) %>%
 group_by(HB, HBName) %>%
 summarize
## 'summarise()' has grouped output by 'HB'. You can override using the '.groups'
## argument.
depri_health_board <- depri_raw_data %>%
                     left_join(inter1,
 select(geography_code, HBName,quintile,indicator_measure)
unique(depri_health_board$HBName)
```

We have two health boards-unique(depri_health_board\$HBName)— data on alcohol-related hospital admissions for each deprivation 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

```
## Rows: 216
## Columns: 4
## $ geography_code <chr> "S08000020", "S080000020", "S080000020", "S080000020", "S080000020", "S080000020", "S080000020", "S0800000000000", "
```

##box-plot alcohol admissions for each deprivation quintile

Alcohol Admissions for Each Deprivation Quintile

