Unit 1 - Exercise 2

Work with placeholders

Create report with placeholders

Task 0

- Open *UNIT1_ex2_struma_placeholders_vYYYYMMDD.Rmd* from folder 'R/Rmarkdown'
  - adapt author statement in the Rmd file
- The chunks underneath the headings 'List of parameters' and 'Information about parameters' are just there to give you an idea how to get an overview of the parameters

Task 1 - working with variables as placeholders

Instead of working directly with the parameter names we want to work with 'placeholders'.
General tip: Change one thing at a time and test it before moving on.

We agree on following notation for this exercise:

```r
# placeholders for grouping parameter
group_int <- "MED"
group_int_lab <- "Medication"
group_int_colors <- c("#00AFBB", "#E7B800")

# placeholders for parameter of interest
var_int <- "xxx"
var_int_lab <- "ABC"
```

a) For 'Overview table'

  - we need to replace *MED* with *group_int*
  - we need to adapt *"**Medication**"* - use: *paste0("**", group_int_lab, "**")*

b) For 'gender'

  - adapt table with descriptive statistics
    - we need to replace *gender* with *all_of(var_int)*
    - we need to replace *MED* with *group_int*
    - we need to adapt *"**Medication**"* - use: *paste0("**", group_int_lab, "**")*
  - adapt bar chart
    - for ggplot you need to use *get(var_int)* and *get(group_int)* in *aes()*

c) For 'age'

  - similar steps as in b)

Task 2 - extend report with parameters blood group and weight

a) Generate for parameters 'bloodgrp' and 'weight' descriptive statistics and corresponding plot(s)

- copy & paste the code from above and adapt it accordingly
  - Hint: you only need to change at 6 places something