Unit 2 - Exercise 1

subRmd for continious and categorical parameters

Create subRmd for continious and categorical parameters

- We will use 'knit_child()' to call `subroutine` Rmd file.
- We will re-use solutions from
  - Unit1 ex2 about placeholders
- If we want to generate general `subroutine` Rmd files that
  - these Rmd files must not have headers
  - we need to work also with a placeholder for the data set
    * placeholder 'dt_analysis'

Task 0

- Open *UNIT2_ex1_struma_subRmds_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 - 'Categorical parameters - no loop'

Underneath the heading *'Categorical parameters - no loop'*

- include the subRmd *subRmd_categorical_withgroup_v20250304.Rmd* and use the placeholders such that you will get the information for the parameter *gender*
  - *subRmd_categorical_withgroup_v20250304.Rmd* is in folder 'R/Rmarkdown/0_subRmds'
  - hint: you will need the placeholders
    * var_int <- "gender"
    * var_int_lab <- "Gender"
  - hint: do not forget that the chunk needs the option: results = 'asis'

Task 2 - 'Continuous parameters - no loop'

Underneath the heading *'Continuous parameters - no loop'*

- Create a subRmd *subRmd_continuous_withgroup.Rmd* and save the file in folder 'R/Rmarkdown/0_subRmds'
  - hint: do not forget that subRmds must not have any header
- You want to have a table and plot which are helpful for continuous parameters, i.e., use your solution from Unit1 ex2 about placeholders to create the file content
  - hint: do not forget to use the placeholder 'dt_analysis'
- Test that this works for the parameter systbp
  - hint: you will need the placeholders
    * var_int <- "systbp"
    * var_int_lab <- "systolic blood pressure [mmHg]"

Task 3 - 'Categorical parameters - with loop'

Underneath the heading *'Categorical parameters - with loop'*

- Generalize your solution from 'Categorical parameters - no loop' such that your subRmd for categorical parameters will be used for all categorical parameters, i.e., use for-loop
  - hint: you will need the placeholders which change with loop index j
    * var_int <- vec_var_int_categorical[j]
    * var_int_lab<- vec_var_int_categorical_lab[j]

Task 4 - 'Continuous parameters - with loop'

Underneath the heading *'Continuous parameters - with loop'*

- same as in task 3 but now for continuous parameters

Task 5 - test '{.tabset}'

Underneath the heading *'Continuous parameters - with tabs {.tabset}'*

- Copy and paste your solution from Task 4 and knit the file again
- Open the html file in the webbrowser

Task 6 - optional

- produce a docx file instead of a html output
  - hint: https://bookdown.org/yihui/rmarkdown/word-document.html
- include your own docx template
  - hint: https://rmarkdown.rstudio.com/articles_docx.html