

Build a MS Word report

Step-by-step correction

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1 Overall objective

This page shows a step-by-step correction of Exercise 3.

2 Setup basic elements of the Quarto document

All these basic elements are part of the YAML header.

```

1  ---
2  title: My outbreak report
3  author: Helene Langet
4  date: "2023-12-31"
5
6  format: docx
7  echo: false
8  warning: false
9  ---

```

- ① Update the title of the Quarto document.
- ② Put your name as author of the Quarto document.
- ③ Add the date 2023-12-31 to the Quarto document.
- ④ Change the output format to generate a MS Word document.
- ⑤ Configure the Quarto document to hide code in the rendered MS Word document.
- ⑥ Configure the Quarto document to hide warnings in the rendered MS Word document.

3 Improve navigation and readability

- ☒ Insert a table of contents to the Quarto document ;

```

1  ---
2  title: "My outbreak report"
3  author: Helene Langet
4  date: "2023-12-31"
5  editor: visual
6
7  format:
8    docx:
9      toc: true
10 ---

```

- ☒ Automatically number the different sections of the Quarto document ;

```

1  ---
2  format:
3    docx:
4      toc: true
5      number-sections: true
6  ---

```

- ☒ Configure the table of contents to only display two levels of section headings.

```

1 ---
2 format:
3   docx:
4     toc: true
5     number-sections: true
6     toc-depth: 2
7 ---

```

4 Implement dynamic calculations

- ☐ Change the date 2023-12-31 to the date at which the Quarto document was last modified, and format this date to display it with the format `December 31, 2023` ;

```

1 ---
2 title: "My outbreak report"
3 author: Helene Langet
4 date: last-modified
5 date-format: long
6 ---

```

- ☐ Replace the placeholder text in bold with the automated calculation of the outbreak start and end dates ;

*“The outbreak ran from **date** to **date**”*

- ☐ Replace the placeholder text in bold with the automated calculation of the number of cases, confirmed cases and deaths.

*“Over the studied period, there were **N** cases, including **N** confirmed cases and **N** confirmed deaths.”*

5 Create and reference publication-ready tables

- ☒ Create a table summarising the demographic characteristics and outcome frequency of all cases

```

1  ```{r}
2  subdf |>
3    dplyr::select(age,
4                  sex,
5                  bmi,
6                  confirmed,
7                  death) |>
8    gtsummary::tbl_summary()
9  ```

```

Characteristic	N = 65,669
age	50 (35, 65)
sex	
1	33,114 (50%)
2	32,555 (50%)
bmi	29 (21, 38)
confirmed	
0	13,235 (20%)
1	52,434 (80%)
death	
0	64,455 (98%)
1	1,214 (1.8%)

☒ Add a caption to the table

```

1  ```{r}
2  #| tbl-cap: Population characteristics
3
4  subdf |>
5    dplyr::select(age,
6                  sex,
7                  bmi,
8                  confirmed,
9                  death) |>
10   gtsummary::tbl_summary()
11  ```

```

Table 2: Population characteristics

Characteristic	N = 65,669
age	50 (35, 65)
sex	
1	33,114 (50%)
2	32,555 (50%)
bmi	29 (21, 38)
confirmed	
0	13,235 (20%)
1	52,434 (80%)
death	
0	64,455 (98%)
1	1,214 (1.8%)

☒ Assign a label to the table ;

```

1  ```{r}
2  #| label: tbl-1
3  #| tbl-cap: Population characteristics
4
5  subdf |>
6    dplyr::select(age,
7                  sex,
8                  bmi,
9                  confirmed,
10                 death) |>
11    gtsummary::tbl_summary()
12  ```

```

Table 3: Population characteristics

Characteristic	N = 65,669
age	50 (35, 65)
sex	
1	33,114 (50%)
2	32,555 (50%)
bmi	29 (21, 38)
confirmed	
0	13,235 (20%)
1	52,434 (80%)

Table 3: Population characteristics

Characteristic	N = 65,669
death	
0	64,455 (98%)
1	1,214 (1.8%)

- ☒ Replace the placeholder text in bold with a cross-reference to the table ;

@tbl-1 provides a summary of the demographic characteristics and the outcome proportion for the overall population.

“Table 3 provides a summary of the demographic characteristics and the outcome proportion for the overall population”

- ☐ Create a table summarising the demographic characteristics of individuals who died versus those who are still alive ;
- ☐ Add a caption to the table ;
- ☐ Assign a label to the table ;
- ☐ Replace the placeholder text in bold with a cross-reference to the table.

*“while **cross-reference** compares the demographic characteristics of individuals who died versus those who are still alive”*

6 Customise figures

Tip

- See [Quarto documentation about figure cross-references](#)
- See [Quarto documentation about figure options](#)

- ☐ Add a caption to the figure ;
- ☐ Assign a label to the figure ;
- ☐ Replace the placeholder text in bold with a cross-reference to the figure ;

*“**cross-reference** illustrates the outbreak’s progression, which can be divided into distinct phases.”*

- ☐ Adjust the dimensions of the figure until you are happy with it
- ☐ Beautify the plot using ggplot options

7 Code



Tip

- See [gtsummary documentation about formatted table of regression model results](#)
- See [Quarto documentation about code chunk cross-references](#)

- ☐ Implement a logistic regression model based on description in the Quarto document ;
- ☐ Create a table summarizing the odds ratios from the logistic regression model ;
- ☐ Add a caption to the table ;
- ☐ Assign a label to the table ;
- ☐ Replace the placeholder text in bold with a cross-reference to the table ;

“The results of the logistic regression model are summarized in the formatted regression table, which is presented in **cross-reference**.”

- ☐ Display the code chunk for your R implementation of the logistic regression (and only this code chunk) in the rendered MS Word document ;
- ☐ Add a caption to the code chunk ;
- ☐ Assign a label to the code chunk ;
- ☐ Replace the placeholder text in bold with a cross-reference to the code chunk.

8 Finalise your MS Word report



Tip

See [Quarto documentation about Word templates](#)

- ☐ Apply the Swiss TPH template `swisstph_template.docx` to your MS Word rendered report ;
- ☐ Create your own template and apply it to your MS Word rendered report.