Add dynamic elements to your report

Instructions

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This exercise builds on the previous exercise where you learnt to build a simple $\overline{\text{MS}}$ Word report .

0.1 Objectives

- Open the Quarto document exercise4.qmd in RStudio;
- All text formatted in bold is a placeholder and should be replaced with appropriate automated calculations or cross-references.
- Complete each of the following tasks and render the document after each task or set of tasks to track your progress.

0.2 Improve navigation and readability

♀ Tip		
• See Quarto documentation about table of contents		
 □ Insert a table of contents to the Quarto document; □ Automatically number the different sections of the Quarto document; □ Configure the table of contents to only display two levels of section headings. 		
3 Implement dynamic calculations		

0.3 Implement dynamic calculations



- See Quarto documentation about date formatting
- See Quarto documentation about dynamic dates
- See Quarto documentation about inline code
- □ 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;
 □ 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."

1 Create and reference publication-ready tables



- See gtsummary documentation about summary tables
- See Quarto documentation about table cross-references

Other R packages include flextable and gt

☐ Create a table summarising the demographic characteristics and outcome frequency of all cases ;
☐ Add a caption to the table ;
☐ Assign a label to the table ;
$\hfill\Box$ Replace the placeholder text in bold with a cross-reference to the table ;
"cross-reference provides a summary of the demographic characteristics and the outcome proportion for the overall population"
\Box 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"
1.1 Customise figures
♥ Tip
• See Quarto documentation about figure cross-references
• See Quarto documentation about figure options
\square Add a caption to the figure;
☐ Assign a label to the figure ;
\square 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

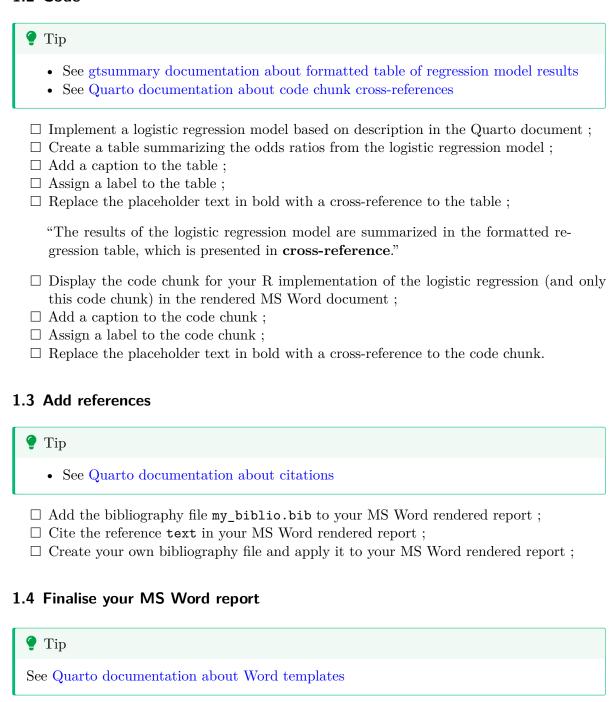
 \Box Adjust the dimensions of the figure until you are happy with it

distinct phases."

 \square Beautify the plot using ggplot options

1.2 Code

report;



☐ Create your own template and apply it to your MS Word rendered report.

□ Apply the Swiss TPH template swisstph template.docx to your MS Word rendered