Create a simple Word report

Instructions

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1 Exercise objectives

- You are tasked with generating a simple report on a fictitious outbreak.
- Open the Quarto document `exercise3.qmd` in RStudio. Complete each of the following tasks and render the document after each task or set of tasks to track your progress.
- The final output should be a Microsoft (MS) Word report named `exercise3.docx`, containing all required tables, figures and corresponding captions.

2 Setup basic elements of the Quarto document

> Tip
>
> - See Quarto documentation about date formatting
> - See Quarto documentation about execution options

- ☐ Update the title of the Quarto document ;
- ☐ Put your name as author of the Quarto document ;
- ☐ Add the date `2023-12-31` to the Quarto document ;
- ☐ Change the output format to generate a MS Word document ;
- ☐ Configure the Quarto document to hide code in the rendered MS Word document ;
- ☐ Configure the Quarto document to hide warnings in the rendered MS Word document.

3 Create publication-ready tables

> Tip
>
> - See `gtsummary` documentation for creating formatted summary tables
> - See `gtsummary` documentation for creating formatted tables of regression model results
> - See `tbl-cap` option to add a caption to a table generated by an executable code chunk
>
> Other R packages for working with and customising tables include flextable and gt

- ☐ Create a table summarising the demographic characteristics and outcome frequency of all cases ;
- ☐ Add a caption to the table;
- ☐ Create a table summarising the demographic characteristics of individuals who died versus those who are still alive ;
- ☐ Add a caption to the table;
- ☐ 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.

4 Create publication-ready figures

> Tip
>
> - see `fig-cap` option to add a caption to a figure generated by an executable code chunk
> - See `fig-width` and `fig-height` options to adjust figure dimensions

☐ Add a caption to the figure ;
☐ Adjust the dimensions of the figure until you are happy with it;
☐ Beautify the plot using `ggplot` options.

5 Code visibility

☐ Display the code chunk for your R implementation of the logistic regression (and only this code chunk) in the rendered MS Word document.