Notes on Medicine

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Contents

Preface

Bookdown

This is a *sample* book written in **Markdown**. You can use anything that Pandoc's Markdown supports, e.g., a math equation $a^2 + b^2 = c^2$.

The **bookdown** package can be installed from CRAN or Github:

```r
install.packages("bookdown")
# or the development version
# devtools::install_github("rstudio/bookdown")
```

Remember each Rmd file contains one and only one chapter, and a chapter is defined by the first-level heading `#`.

To compile this example to PDF, you need XeLaTeX. You are recommended to install TinyTeX (which includes XeLaTeX): https://yihui.name/tinytex/.

You can label chapter and section titles using `{#label}` after them, e.g., we can reference Chapter **??**. If you do not manually label them, there will be automatic labels anyway, e.g., Chapter **??**.

Figures and tables with captions will be placed in `figure` and `table` environments, respectively.

```r
par(mar = c(4, 4, .1, .1))
plot(pressure, type = 'b', pch = 19)
```

Reference a figure by its code chunk label with the `fig:` prefix, e.g., see Figure 1. Similarly, you can reference tables generated from `knitr::kable()`, e.g., see Table 1.

```r
knitr::kable(
  head(iris, 20), caption = 'Here is a nice table!',
  booktabs = TRUE
)
```

You can write citations, too. For example, we are using the **bookdown** package (Xie, 2018) in this sample book, which was built on top of R Markdown and **knitr** (Xie, 2015).
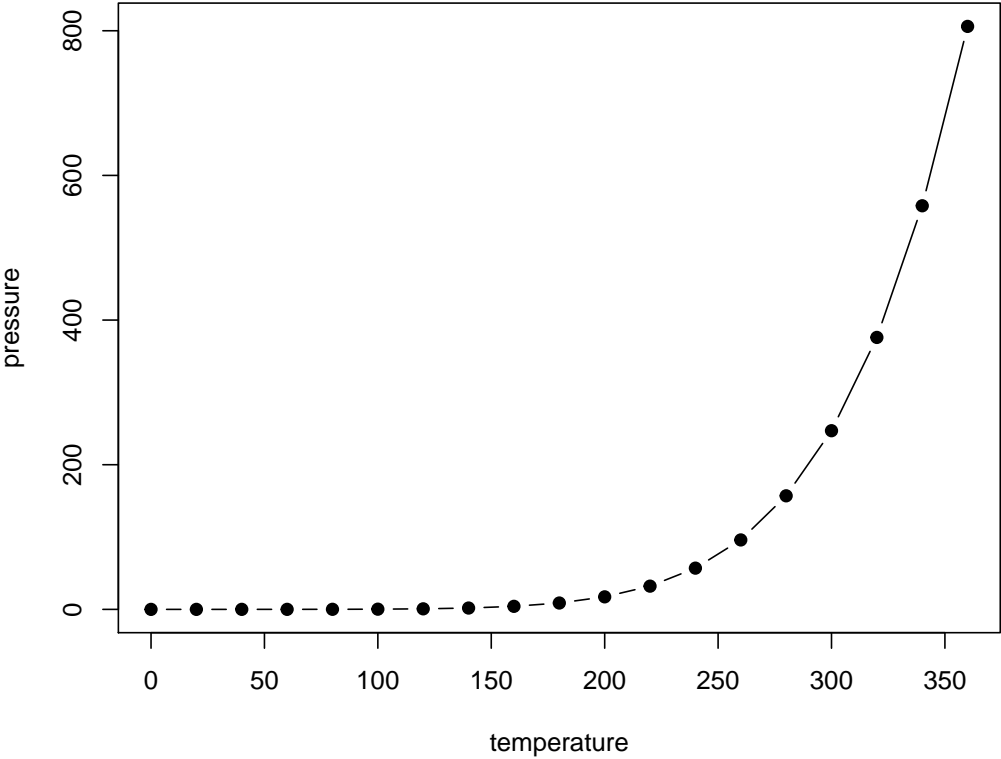
Figure 1: Here is a nice figure!

Table 1: Here is a nice table!

Sepal.Length	Sepal.Width	Petal.Length	Petal.Width	Species
5.1	3.5	1.4	0.2	setosa
4.9	3.0	1.4	0.2	setosa
4.7	3.2	1.3	0.2	setosa
4.6	3.1	1.5	0.2	setosa
5.0	3.6	1.4	0.2	setosa
5.4	3.9	1.7	0.4	setosa
4.6	3.4	1.4	0.3	setosa
5.0	3.4	1.5	0.2	setosa
4.4	2.9	1.4	0.2	setosa
4.9	3.1	1.5	0.1	setosa
5.4	3.7	1.5	0.2	setosa
4.8	3.4	1.6	0.2	setosa
4.8	3.0	1.4	0.1	setosa
4.3	3.0	1.1	0.1	setosa
5.8	4.0	1.2	0.2	setosa
5.7	4.4	1.5	0.4	setosa
5.4	3.9	1.3	0.4	setosa
5.1	3.5	1.4	0.3	setosa
5.7	3.8	1.7	0.3	setosa
5.1	3.8	1.5	0.3	setosa

Chapter 1

new

- Ralston, J., Nugent, R. Toward a broader response to cardiometabolic disease. Nat Med (2019) doi: 10.1038/s41591-019-0642-9.

- Bedford, J., Farrar, J., Ihekweazu, C. et al. A new twenty-first century science for effective epidemic response. Nature 575, 130–136 (2019) doi:10.1038/s41586-019-1717-y

- Shibadas Biswal, M.D., Humberto Reynales, M.D., Ph.D., Xavier Saez-Llorens, M.D., Pio Lopez, M.D., Charissa Borja-Tabora, M.D., Pope Kosalaraksa, M.D., Chukiat Sirivichayakul, M.D., Veerachai Watanaveeradej, M.D., Luis Rivera, M.D., Felix Espinoza, M.D., LakKumar Fernando, M.D., Reynaldo Dietze, M.D., et al., for the TIDES Study Group (2019) Efficacy of a Tetravalent Dengue Vaccine in Healthy Children and Adolescents. NEJM; November 6, 2019. DOI: 10.1056/NEJMoa1903869.

- AUSTIN FRAKT (2019) JAMA Forum: Making Health Care More Productive. https://newsatjama.jama.com/2019/11/07/jama-forum-making-health-care-more-productive/

- Careful and Kind Care Requires Unhurried Conversations. https://catalyst.nejm.org/kind-care-requires-unhurried-conv

- Pay for Relationship: A Novel Solution to the Primary Care Crisis. https://catalyst.nejm.org/a-novel-solution-to-the-primary-care-crisis/

- Deep Medicine. https://twitter.com/JDaleMD/status/1192120913363255296

- From 1869-2019, the #Nature150 anniversary issue. https://twitter.com/EricTopol/status/1192142643309903872

- A comprehensive review of the important sex differences in cardiometabolic diseases. https://www.nature.com/articles/s41591-019-0643-8

- The use of #probiotics in hospitals is increasing. Now the first proof via genomic sequencing that these pills can induce sepsis. https://www.nature.com/articles/s41591-019-0626-9

- Now we know that tumor cells are like bacteria: they evade treatment with adaptive mutability. https://science.sciencemag.org/content/early/2019/11/06/science.aav4474

Chapter 2

Mental Health

2.1 Reading list

- Horton R (2019) Offline: A perilous birthday party for mental health. The Lancet; VOLUME 394, ISSUE 10210, P1696, NOVEMBER 09, 2019. DOI:https://doi.org/10.1016/S0140-6736(19)32716-3

Chapter 3

Communication

3.1 Reading list

- Michelle M. Kittleson (2019) A Good Physician — On Complacency and Communication. N Engl J Med 2019; 381:1798-1799. DOI: 10.1056/NEJMp1907319

Bibliography

Xie, Y. (2015). *Dynamic Documents with R and knitr.* Chapman and Hall/CRC, Boca Raton, Florida, 2nd edition. ISBN 978-1498716963.

Xie, Y. (2018). *bookdown: Authoring Books and Technical Documents with R Markdown.* R package version 0.9.