# A demonstration of the LATEX class file for Statistical Methods in Medical Research with Rmarkdown

Journal Title
XX(X):1–5
@The Author(s) 0000
Reprints and permission:
sagepub.co.uk/journalsPermissions.nav
DOI: 10.1177/ToBeAssigned
www.sagepub.com/

SAGE

A. Uthor\*1,2, O. Tro2, O. Vriga3

#### Abstract

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Aenean ut elit odio. Donec fermentum tellus neque, vitae fringilla orci pretium vitae. Fusce maximus finibus facilisis. Donec ut ullamcorper turpis. Donec ut porta ipsum. Nullam cursus mauris a sapien ornare pulvinar. Aenean malesuada molestie erat quis mattis. Praesent scelerisque posuere faucibus. Praesent nunc nulla, ullamcorper ut ullamcorper sed, molestie ut est. Donec consequat libero nisi, non semper velit vulputate et. Quisque eleifend tincidunt ligula, bibendum finibus massa cursus eget. Curabitur aliquet vehicula quam non pulvinar. Aliquam facilisis tortor nec purus finibus, sit amet elementum eros sodales. Ut porta porttitor vestibulum. Integer molestie, leo ut maximus aliquam, velit dui iaculis nibh, eget hendrerit purus risus sit amet dolor. Sed sed tincidunt ex. Curabitur imperdiet egestas tellus in iaculis. Maecenas ante neque, pretium vel nisl at, lobortis lacinia neque. In gravida elit vel volutpat imperdiet. Sed ut nulla arcu. Proin blandit interdum ex sit amet laoreet. Phasellus efficitur. sem hendrerit mattis dapibus, nunc tellus ornare nisi, nec eleifend enim nibh ac ipsum. Aenean tincidunt nisl sit amet facilisis faucibus. Donec odio erat, bibendum eu imperdiet sed, gravida luctus turpis.

#### **Keywords**

Class file; LATEX; SMMR; Rmarkdown;

#### Corresponding author:

Corresponding author name, This is sample corresponding address.

Email: correspondingauthor@protonmail.com

<sup>&</sup>lt;sup>1</sup>Department of Incredible Research, University A, City A, Country A

<sup>&</sup>lt;sup>2</sup>Department of Applied Things, University B, City B, Country B

<sup>&</sup>lt;sup>3</sup>Very Important Stuff Committee, Institute C, City C, Country C

## The Article Header Information

### YAML header:

```
output:
   rticles::sim_article:
    keep tex: TRUE
```

Configure the YAML header including the following elements:

- title: Title
- runninghead: Author last names, use *et al.* if there are three or more authors.
- author: List of author(s) containing name and num
- corrauth: Corresponding author's name and address.
- email: Correspondence email
- abstract: Limited to 200 words
- keywords: Keywords for the article
- bibliography: BibTeX .bib file
- bibliographystyle: sageh or sagev
- classoption: options of the sagej class

#### Remarks

- 2. bibliographystyle
- 3. classoption
- 4. Keywords are separated by commas.

# The Body of the Article

## Mathematics

Use mathematics in Rmarkdown as usual.

## Figures and Tables

Figures are supported from R code:

```
x = rnorm(10)

y = rnorm(10)

plot(x, y)
```

Analogously, use Rmarkdown to produce tables as usual:

```
if (!require("xtable")) install.packages("xtable")
```

Uthor et al. 3

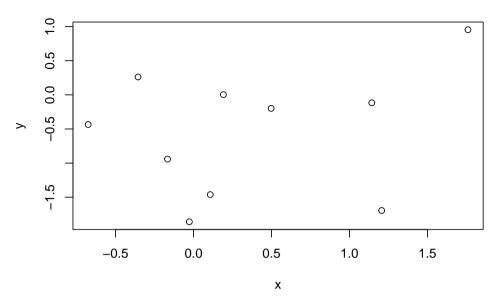


Figure 1. Fancy Caption

## Loading required package: xtable
xt <- xtable(head(cars), caption = "A table", label = "tab:table")
print(xt, comment = FALSE)</pre>

	speed	dist
1	4.00	2.00
2	4.00	10.00
3	7.00	4.00
4	7.00	22.00
5	8.00	16.00
6	9.00	10.00

Table 1. A table

Referenced via 1. You can also use the YAML option header-includes to includes custom LATEXpackages for tables (keep in mind that pandoc uses longtables by default, and it is hardcoded; some things may require including the package longtable). E.g., using ctable:

header-includes:
- \usepackage{ctable}

Then, just write straight-up  $\LaTeX$  code and reference is as usual (\ref{tab:ctable}):

It is also possible to set the YAML option longtable: true and use markdown tables (or the knitr::kable function): knitr::kable (head(cars)) produces the same table as the xtable example presented before.

## Cross-referencing

The use of the Rmarkdown equivalent of the LaTeXcross-reference system for figures, tables, equations, etc., is encouraged (using <code>[@<name>]</code>, equivalent of  $\ref{<name>}$  and  $\adjustle{name>}$ ). That works well for citations in Rmarkdown, not so well for figures and tables. In that case, it is possible to revert to standard LaTeXsyntax.

# Double Spacing

If you need to double space your document for submission please use the doublespace option in the header.

## Bibliography

Link a .bib document via the YAML header, and bibliography will be printed at the very end (as usual). The default bibliography style is provided by Wiley as in WileyNJD-AMA.bst, do not delete that file.

Use the Rmarkdown equivalent of the LaTeXcitation system using [@<name>]. Example: (Taylor and Green 1937), (Knupp 1999; Kamm 2000).

To include all citation from the .bib file, add  $\nocite{*}$  before the end of the document.

Uthor et al. 5

## **Further information**

All LaTeX environments supported by the main template are supported here as well; see the .tex sample file here for more details and example.

#### References

- Kamm J (2000) Evaluation of the Sedov-von Neumann-Taylor blast wave solution. Technical Report Technical Report LA-UR-00-6055, Los Alamos National Laboratory.
- Knupp P (1999) Winslow smoothing on two-dimensional unstructured meshes. *Eng Comput* 15: 263–268.
- Taylor G and Green A (1937) Mechanism of the production of small eddies from large ones. *P Roy Soc Lond A Mat* 158(895): 499–521.