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My Paper Title

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Abstract

This article presents a classification of disease severity for patients with cystic fibrosis (CF). CF is a genetic disease that dramatically decreases life expectancy and quality.

Keywords *conditional distribution; cystic fibrosis; Kullback–Leibler divergence; MCMC; quantiles.*

1 Equations

Weibull distribution has the virtue of being a mathematically tractable model and is versatile in terms of its applications in reliability, life data analysis, actuarial science and others. Apart from being a potential model in survival analysis and reliability engineering, it has a vast domain of other applications.

Equations are always parts of sentences, so they need to have appropriate punctuations. To evaluate the distribution of a normal variable, one use

$$\Pr(Z \leqslant t) = \Phi\left(\frac{Z-\mu}{\sigma}\right), \tag{1}$$

where Z follows a $N(\mu, \sigma^2)$ distribution. Equations can be referenced by `\eqref`. When $\mu = 0$ and $\sigma = 1$, the Z in Equation~(1) becomes a standard normal variable.

Multiline equations can be presented with the `align` environment. For example,

$$\begin{aligned} g_\mu(\phi) &= 0, \\ g_\mu(X) &= 1. \end{aligned}$$

An equation that is not referenced should not be labeled. The starred version of the `equation` and `align` are for this purpose.

2 Tables

We recommend LaTeX package `booktabs` for professional looking tables. Its toprule and bottomrule are thicker than midrule.

A professional table contains no vertical lines.

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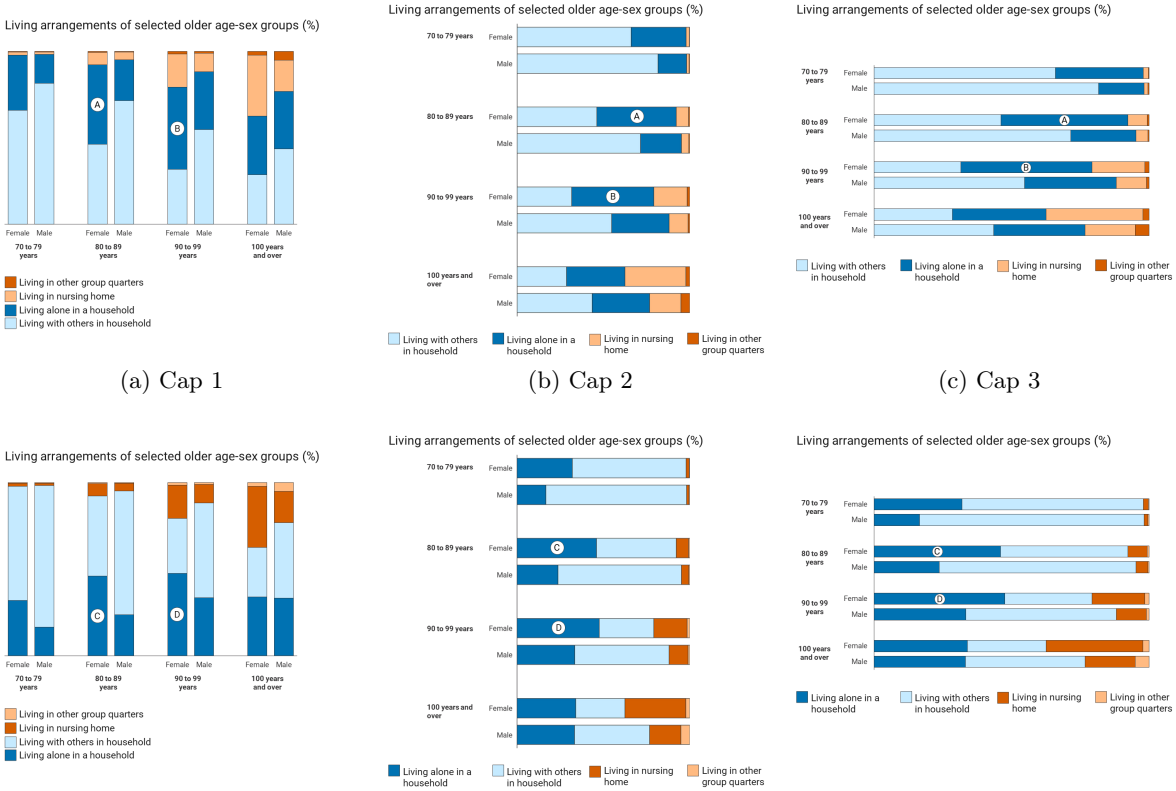
†Another footnote.



(a) Cap 1 (b) Cap 2 (c) Cap 3

(d) Cap 4 (e) Cap 5 (f) Cap 6

Figure 1: caption

3 Figures

Vector graphics do not lose clarity when being scaled. Make your figure in pdf format when you first generate it and keep in mind its sizes in the article to avoid over-scaling. Do not simply convert a jpeg or png image to a pdf.

```
knitr::include_graphics("../SDSS-2023/images/vertical-ab.PNG")
knitr::include_graphics("../SDSS-2023/images/round3/horizontal-ab.PNG")
knitr::include_graphics("../SDSS-2023/images/round3/hwide-ab.PNG")
knitr::include_graphics("../SDSS-2023/images/vertical-cd.PNG")
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knitr::include_graphics("../SDSS-2023/images/round3/hwide-cd.PNG")
```

4 Code

The document class `jds` provides several commands to decorate

- inline code, such as `print("Hello world!")`;
- programming language, such as R, Python, and C++;

- software package, such as *stats*, *utils*.

```
## Dobson (1990) Page 93: Randomized Controlled Trial :
counts <- c(18, 17, 15, 20, 10, 20, 25, 13, 12)
outcome <- gl(3, 1, 9)
treatment <- gl(3, 3)
glm.D93 <- glm(counts ~ outcome + treatment, family = poisson())
summary(glm.D93)
```

```
Call:
glm(formula = counts ~ outcome + treatment, family = poisson())

Deviance Residuals:
       1         2         3         4         5         6         7         8
-0.67125   0.96272  -0.16965  -0.21999  -0.95552   1.04939   0.84715  -0.09167
       9
-0.96656

Coefficients:
             Estimate Std. Error z value Pr(>|z|)
(Intercept)  3.045e+00  1.709e-01  17.815   <2e-16 ***
outcome2    -4.543e-01  2.022e-01  -2.247   0.0246 *
outcome3    -2.930e-01  1.927e-01  -1.520   0.1285
treatment2   1.338e-15  2.000e-01   0.000   1.0000
treatment3   1.421e-15  2.000e-01   0.000   1.0000
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

(Dispersion parameter for poisson family taken to be 1)

    Null deviance: 10.5814  on 8  degrees of freedom
Residual deviance:  5.1291  on 4  degrees of freedom
AIC: 56.761

Number of Fisher Scoring iterations: 4
```

5 Guide for Authors

The following requirements must be followed as closely as possible. A technically acceptable manuscript that fails to follow these requirements may be returned for retyping, leading to delay in publication.We only accept submissions in PDF format. The Latex file must be provided after the manuscript is accepted.

5.1 Submission of Papers

Submission of a manuscript must be the original work of the author(s) and have not been published elsewhere or under consideration for another publication, or a substantially similar form in any language.

Authors are encouraged to recommend three to five individuals (including their research fields, e-mail, phone numbers and addresses) who are qualified to serve as referees for their paper.

6 A Placeholder Section

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7 Citing References

The citations are in the author-year format with the `jds` bibstyle.

Citations can be in either text or parenthesis format style with `\citet` or `\citep`, respectively. For example, Koenker and Bassett (1978) is a seminal work on quantile regression; The Laplace distribution has applications in many fields (Kotz et al., 2001).

8 Discussion

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Koenker R, Bassett G (1978). Regression quantiles. *Econometrica*, 46(1): 33–50.

Kotz S, Kozubowski T, Podgórski K (2001). *The Laplace Distribution and Generalizations: A Revisit with Applications to Communications, Economics, Engineering, and Finance*. Birkhá user, Boston.