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Addressing Confounding and Exposure Measurement Error Using Conditional Score Functions

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Summary: The text of your summary. Should not exceed 225 words.
Key words: Causal inference.

This paper has been submitted for consideration for publication in *Biometrics*

1. Introduction

Your text comes here. Separate text sections with

2. Section title

Text with citations by Heagerty et al. (2000), (Pepe, 2003).

2.1 *Subsection title*

as required (Hoerl and Kennard, 1970; Zou and Hastie, 2005). Don't forget to give each section and subsection a unique label (see Sect. 2).

Paragraph headings. Use paragraph headings as needed.

2.2 *Equations*

Here is an equation:

$$f_X(x) = \left(\frac{\alpha}{\beta}\right)\left(\frac{x}{\beta}\right)^{\alpha-1} e^{-\left(\frac{x}{\beta}\right)^{\alpha}}; \alpha, \beta, x > 0$$

Here is another:

$$a^2 + b^2 = c^2 \tag{1}$$

Inline equations: $\sum_{i=2}^{\infty}\{\alpha_i^{\beta}\}$

3. Figures and tables

3.1 *Figures coming from R*

Normal figure embedded in text.

```
## Warning in plot.formula(runif(25) ~ runif(25)): the formula 'runif(25) ~
## runif(25)' is treated as 'runif(25) ~ 1'
```

[Figure 1 about here.]

3.2 *Tables coming from R*

```
print(xtable::xtable(head(mtcars)[,1:4],
caption = "Caption centered under table", label = "tab1"),
comment = FALSE, timestamp = FALSE, caption.placement = "top")
```

[Table 1 about here.]

Table 1 shows these numbers. Some of those numbers are plotted in Figure **??**.

```
head(mtcars[,1:4])
```

```
##                   mpg cyl disp  hp
## Mazda RX4         21.0   6  160 110
## Mazda RX4 Wag     21.0   6  160 110
## Datsun 710        22.8   4  108  93
## Hornet 4 Drive    21.4   6  258 110
## Hornet Sportabout 18.7   8  360 175
## Valiant           18.1   6  225 105
```

References

Heagerty, P. J., Lumley, T., and Pepe, M. S. (2000). Time-dependent roc curves for censored survival data and a diagnostic marker. *Biometrics* **56,** 337–344.

Hoerl, A. E. and Kennard, R. W. (1970). Ridge regression: Biased estimation for nonorthogonal problems. *Technometrics* **12,** 55–67.

Pepe, M. S. (2003). *The statistical evaluation of medical tests for classification and prediction.* Oxford University Press.

Zou, H. and Hastie, T. (2005). Regularization and variable selection via the elastic net. *Journal of the Royal Statistical Society: Series B (Statistical Methodology)* **67,** 301–320.

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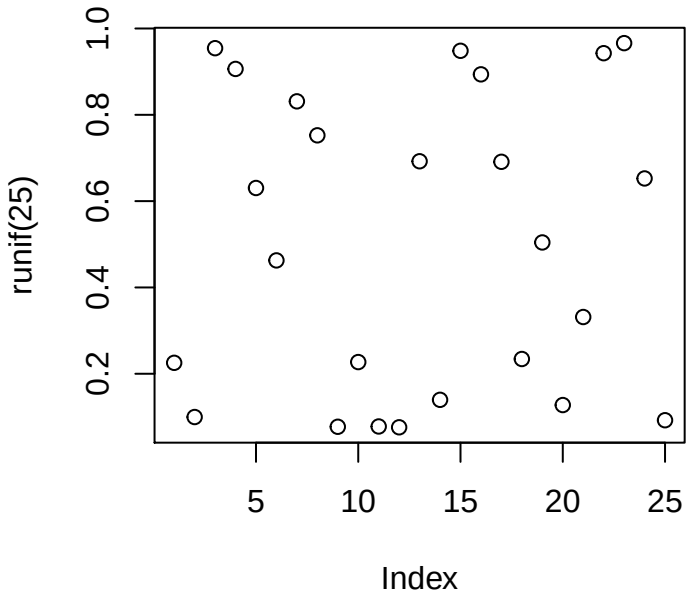

Figure 1. Output from `pdf()`

Table 1
Caption centered under table

	mpg	cyl	disp	hp
Mazda RX4	21.00	6.00	160.00	110.00
Mazda RX4 Wag	21.00	6.00	160.00	110.00
Datsun 710	22.80	4.00	108.00	93.00
Hornet 4 Drive	21.40	6.00	258.00	110.00
Hornet Sportabout	18.70	8.00	360.00	175.00
Valiant	18.10	6.00	225.00	105.00