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# A demonstration of the $\LaTeX 2_{\epsilon}$ class file for *Statistics in Medicine*<sup>†</sup>

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This paper describes the use of the  $\LaTeX 2_{\epsilon}$  `simauth.cls` class file for setting papers for *Statistics in Medicine*. Copyright © 2010 John Wiley & Sons, Ltd.

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## 1. Introduction

Many authors submitting to research journals use  $\LaTeX 2_{\epsilon}$  to prepare their papers. This paper describes the `simauth.cls` class file which can be used to convert articles produced with other  $\LaTeX 2_{\epsilon}$  class files into the correct form for publication in *Statistics in Medicine*.

The `simauth.cls` class file preserves much of the standard  $\LaTeX 2_{\epsilon}$  interface so that any document which was produced using the standard  $\LaTeX 2_{\epsilon}$  `article` style can easily be converted to work with the `simauth` style. However, the width of text and typesize will vary from that of `article.cls`; therefore, *line breaks will change* and it is likely that displayed mathematics and tabular material will need re-setting.

In the following sections we describe how to lay out your code to use `simauth.cls` to reproduce the typographical look of *Statistics in Medicine*. However, this paper is not a guide to using  $\LaTeX 2_{\epsilon}$  and we would refer you to any of the many books available (see, for example, [1, 2, 3]).

## 2. The Three Golden Rules

Before we proceed, we would like to stress *three golden rules* that need to be followed to enable the most efficient use of your code at the typesetting stage:

- (i) keep your own macros to an absolute minimum;
- (ii) as  $\TeX$  is designed to make sensible spacing decisions by itself, do *not* use explicit horizontal or vertical spacing commands, except in a few accepted (mostly mathematical) situations, such as `\,` before a differential `d`, or `\quad` to separate an equation from its qualifier;
- (iii) follow the *Statistics in Medicine* reference style.

## 3. Getting Started

The `simauth` class file should run on any standard  $\LaTeX 2_{\epsilon}$  installation. If any of the fonts, class files or packages it requires are missing from your installation, they can be found on the *TEX Collection* DVDs or from CTAN.

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<sup>†</sup>Please ensure that you use the most up to date class file, available from the SIM Home Page at

[www.interscience.wiley.com/jpages/0277-6715](http://www.interscience.wiley.com/jpages/0277-6715)

```
\documentclass[times]{simauth}
%\documentclass[times,doublespace]{simauth}%For paper submission

\begin{document}

\runninghead{<Initials and Surnames>}

\title{<Initial cap, lower case>}

\author{<An Author\affil{a},
Someone Else\affil{b}\corrauth\ and Perhaps Another\affil{a}>}

\address{<\affilnum{a}First author's address
(in this example it is the same as the third author)\
\affilnum{b}Second author's address>}

\corraddr{<Corresponding author's address (the second author in
this example)>. E-mail: <corresponding author's email address>}

%\cgs{<Contract/grant sponsor name>}

\begin{abstract}
<Text>
\end{abstract}

\keywords{<Keywords>}

\maketitle

\section{Introduction}
.
.
.
```

Figure 1. Example header text.

*Statistics in Medicine* is published using Times fonts and this is achieved by using the `times` option as `\documentclass[times]{ctauth}`. Times fonts are also used for mathematics. This is achieved by adding the LaTeX package `mathtime`. If for any reason you have a problem using Times you can easily resort to Computer Modern fonts by removing the `times` option.

## 4. The Article Header Information

The heading for any file using `simauth.cls` is shown in Figure 1.

### 4.1. Remarks

- (i) In `\runninghead` use '*et al.*' if there are three or more authors.
- (ii) Note the use of `\affil` and `\affilnum` to link names and addresses. The author for correspondence is marked by `\corrauth` and `\corraddr` is used to give that author's address, which will be printed as a footnote, prefaced by 'Correspondence to:'.
- (iii) For submitting a double-spaced manuscript, add `doublespace` as an option to the `documentclass` line.
- (iv) Use `\cgs` for giving details of financial sponsors. These details will be printed as a footnote, with 'Contract/grant sponsor:' inserted in the appropriate places.

```

\begin{table}
\caption{<Table caption>}
\centering
\begin{tabular}{<table alignment>}
\toprule
<column headings>\\
\midrule
<table entries
(separated by & as usual)>\\
<table entries>\\
.
.
.\\
\bottomrule
\end{tabular}
\end{table}

```

**Figure 2.** Example table layout.

- (v) The abstract should be capable of standing by itself, in the absence of the body of the article and of the bibliography. Therefore, it must not contain any reference citations.
- (vi) Keywords are separated by semicolons.

## 5. The Body of the Article

### 5.1. Mathematics

`simauth.cls` makes the full functionality of  $\mathcal{A}\mathcal{M}\mathcal{S}\mathcal{T}\mathcal{E}\mathcal{X}$  available. We encourage the use of the `align`, `gather` and `multline` environments for displayed mathematics.

Use the LaTeX package `mathtime` to render mathematics in Times fonts. See sample below:

$$\ln(\mu) = \beta_0 + \sum_{i=1}^p \beta_i x_i + V_p + \tilde{P}_z \quad (1)$$

### 5.2. Figures and Tables

`simauth.cls` uses the `graphicx` package for handling figures.

Figures are called in as follows:

```

\begin{figure}
\centering
\includegraphics{<figure name>}
\caption{<Figure caption>}
\end{figure}

```

For further details on how to size figures, etc., with the `graphicx` package see, for example, [1] or [3]. If figures are available in an acceptable format (for example, `.eps`, `.ps`) they will be used but a printed version should always be provided.

The standard coding for a table is shown in Figure 2.

### 5.3. Cross-referencing

The use of the  $\mathcal{L}\mathcal{T}\mathcal{E}\mathcal{X}$  cross-reference system for figures, tables, equations, etc., is encouraged (using `\ref{<name>}` and `\label{<name>}`).

### 5.4. Acknowledgements

An Acknowledgements section is started with `\ack` or `\acks` for *Acknowledgement* or *Acknowledgements*, respectively. It must be placed just before the References.

## 5.5. Bibliography

The normal commands for producing the reference list are:

```
\begin{thebibliography}{99}
\bibitem{<x-ref label>}
    <Reference details>
.
.
.
\end{thebibliography}
```

where `\bibitem{x-ref label}` corresponds to `\cite{x-ref label}` in the body of the article and `{99}` is the widest such number expected and determines the width of the number column in the reference list.

Please note that the file `wileyj.bst` is available from the same download page for those authors using `BIBTEX`.

## 5.6. Double Spacing

If you need to double space your document for submission please use the `doublespace` option as shown in the sample layout in Figure 1.

## 6. Support for `simauth.cls`

We offer on-line support to participating authors. Please contact us via e-mail at [simauth-cls@wiley.co.uk](mailto:simauth-cls@wiley.co.uk).

We would welcome any feedback, positive or otherwise, on your experiences of using `simauth.cls`.

## 7. Copyright Statement

Please be aware that the use of this  $\text{\LaTeX} 2_{\epsilon}$  class file is governed by the following conditions.

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This class file was developed by Sunrise Setting Ltd, Torquay, Devon, UK. Website: [www.sunrise-setting.co.uk](http://www.sunrise-setting.co.uk)

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