

Tricuspid Valve Academic Research Consortium Definitions for Tricuspid Regurgitation and Trial Endpoints¹

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ABSTRACT

Interest in the pathophysiology, etiology, management, and outcomes of patients with tricuspid regurgitation (TR) has grown in the wake of multiple natural history studies showing progressively worse outcomes associated with increasing TR severity, even after adjusting for multiple comorbidities. Historically, isolated tricuspid valve surgery has been associated with high in-hospital mortality rates, leading to the development of transcatheter treatment options. The aim of this first Tricuspid Valve Academic Research Consortium document is to standardize definitions of disease etiology and severity, as well as endpoints for trials that aim to address the gaps in our knowledge related to identification and management of patients with TR. Published by Elsevier Inc on behalf of the American College of Cardiology and The Society of Thoracic Surgeons and by Oxford University Press on behalf of the European Society of Cardiology. Standardizing endpoints for trials should provide consistency and enable meaningful comparisons between clinical trials. This is an open access article under the CC BY-NC-ND license ([\(<http://creativecommons.org/licenses/by-nc-nd/4.0/>\)](http://creativecommons.org/licenses/by-nc-nd/4.0/)

✉ For correspondence:

<https://github.com/roaldarbol/>
LaPreprint/issues (MRA)

Here's a few symbols to denote contribution specifics, e.g. authors who contributed equally to the work.

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Competing interests: The author declare no competing interests.

Introduction

Use `\section` and `\subsection` commands to organize your document. L^AT_EX handles all the formatting automatically. Use `\label` and `\nameref` commands for cross-referencing sectional headings: the usual `\ref` will not work, as this template uses unnumbered sectional headings.

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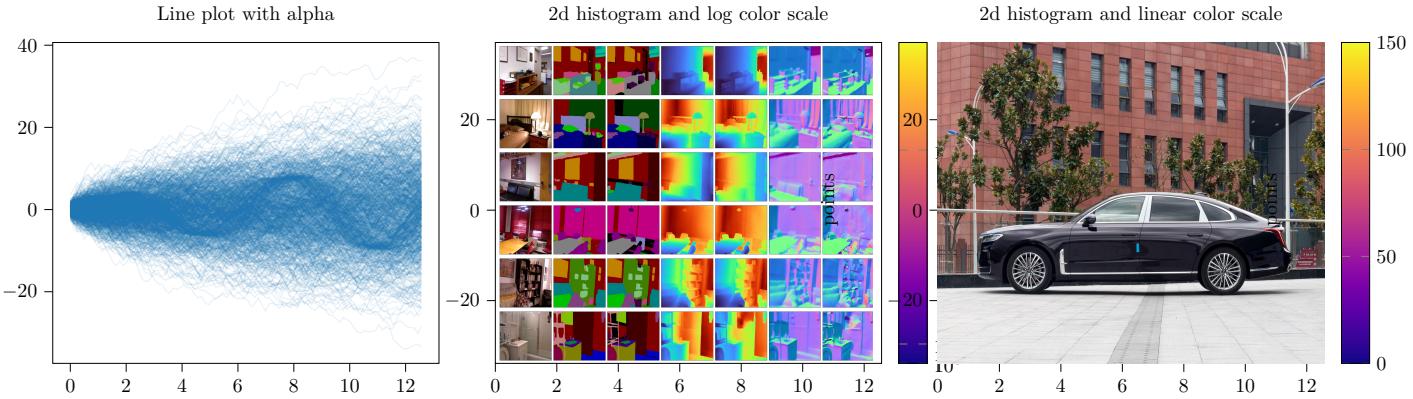


Figure 1. There is no limit on the number of Figure Supplements for any one primary figure.

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21 Nam dui ligula, fringilla a, euismod sodales, ₃₃
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 29 que penatibus et magnis dis parturient montes, ₄₁
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 32 que cursus luctus mauris. ₄₄

² This is a sidenote made with the \sidenote package. ²⁸ Lorem ipsum dolor sit amet, con-²⁹
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Figures and Tables

Use the table and tabular commands for basic tables — see **Table 1**, for example. For tables, I recommend that you use a separate .tex file for each table and insert it using \input{mytable.tex}.

You can upload a figure (JPEG, PNG or PDF) using the project menu. To include it in your document, use the \includegraphics command as in the code for **Figure 3**.

Really wide figures or tables, that take up the entire page, including the gutter space: use \begin{fullwidth}... \end{fullwidth} as in **Figure 2**. And sometimes you may want to use feature boxes like **Box 1**.

Citations and notes

LaTeX formats citations and references automatically using the bibliography records in your .bib file. Use the \cite command for an inline citation, like **Pooley2021**, and the \parencite command for a citation in parentheses (**Brembs2021**). Side notes makes good use of the empty margin and can be used ewith the \sidenote command.²

Mathematics

LaTeX is great at typesetting mathematics *abc*. Let X_1, X_2, \dots, X_n be a sequence of independent and identically distributed random variables with $E[X_i] = \mu$ and $\text{Var}[X_i] = \sigma^2 < \infty$, and let

$$S_n = \frac{X_1 + X_2 + \dots + X_n}{n} = \frac{1}{n} \sum_i^n X_i \quad (1)$$

denote their mean. Then as n approaches infinity, the random variables $\sqrt{n}(S_n - \mu)$ converge in distribution to a normal $\mathcal{N}(0, \sigma^2)$.

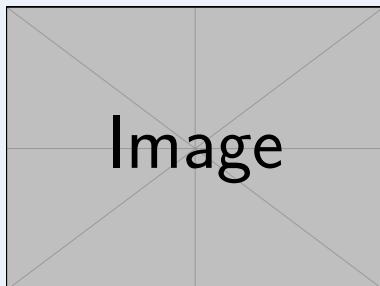


Figure 2. Photo of lovely Brighton by Alex Ovs on Unsplash. As a very wide figure that takes up the entire page, including the gutter space.

Figure 2—figure supplement 1. There is no limit on the number of Figure Supplements for any one primary figure. Each figure supplement should be clearly labelled, Figure 1—Figure Supplement 1, Figure 1—Figure Supplement 2, Figure 2—Figure Supplement 1 and so on, and have a short title (and optional legend). Figure Supplements should be referred to in the legend of the associated primary figure, and should also be listed at the end of the article text file.

53 **Box 1. This is an example feature box**

54 This is a feature box. It floats!



57 **Box 1—figure 1.** ‘Figure’ and ‘table’ captions in feature boxes should be entered with `\featurefig` and `\featuretable`. They’re not really floats.

58 Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Ut purus elit, vestibulum ut, placerat ac,
59 adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consec-
60 tuer id, vulputate a, magna. Donec vehicula augue eu neque. Pellentesque habitant morbi tristique
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62 sem. Nulla et lectus vestibulum urna fringilla ultrices. Phasellus eu tellus sit amet tortor gravida
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72 You can even get extra fancy and annotate your equations directly:

73

$$S_n = \frac{X_1 + X_2 + \dots + X_n}{n} = \frac{1}{n} \sum_i^n X_i$$

The equation is annotated with two arrows. A blue arrow points from the text "independent and identically distributed random variables" above the equation to the term "X₁ + X₂ + ... + X_n". A red arrow points from the text "a random variable" below the equation to the term "X_i".

74 Nulla malesuada porttitor diam. Donec felis erat, congue non, volutpat at, tincidunt tristique, libero.
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76 elit. Proin fermentum massa ac quam. Sed diam turpis, molestie vitae, placerat a, molestie nec, leo.
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81 felis eu massa.

82 **Other Chemistry Niceties**

83 You can use commands from the `mhchem` and `siunitx` packages. For example: C₃₂H₆₄NO₇S; 5 µm; 30 °C;
84 5 × 10⁻¹⁷ M

85 **Lists**

86 You can make lists with automatic numbering ...

- 87 1. Like this,
88 2. and like this.

89 ... or bullet points ...

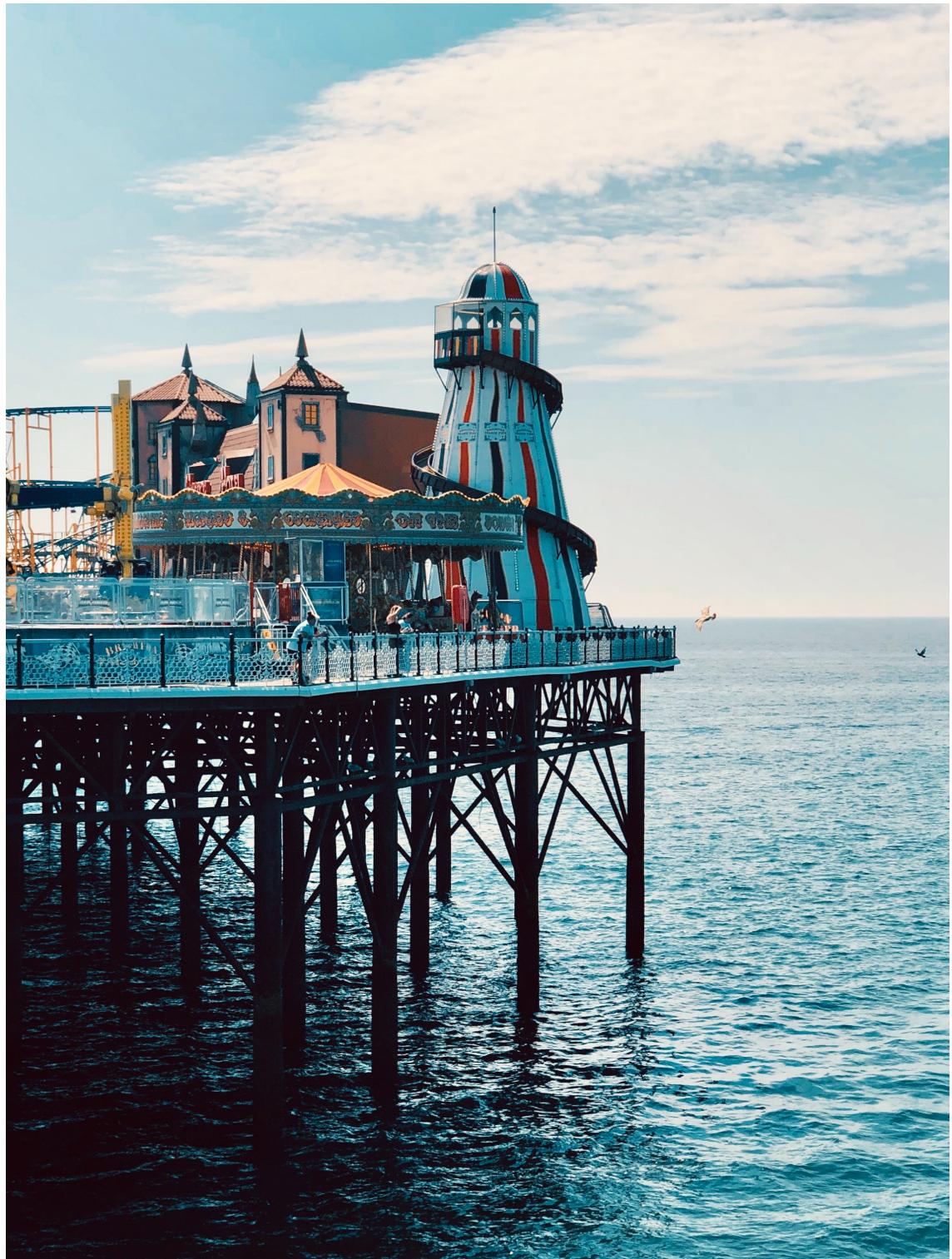


Figure 3. A text-width example.

Figure 3—figure supplement 1. Shorter caption for main text.

Figure 3—figure supplement 2. This is another supplementary figure.

Figure 3—video 1. This is a description of a video supplement.

Figure 3—source data 1. This is a description of a data source.

Figure 3—source data 2. This is another description of a data source.

Figure 3—source code 1. This is a description of a source code.

- 90 • Like this,
91 • and like this.
- 92 ...or with words and descriptions ...
- 93 **Word** Definition
94 **Concept** Explanation
95 **Idea** Text
- 96 Some filler text, because empty templates look really poorly. Lorem ipsum dolor sit amet, consec-
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- 105 **Methods & Materials**
- 106 **Behavioural setup**
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- 113 **Electrophysiological setup**
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- 120 **Results**
- 121 Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adip-
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128 Donec varius orci eget risus. Duis nibh mi, congue eu, accumsan eleifend, sagittis quis, diam. Duis eget
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- 130 Nam dui ligula, fringilla a, euismod sodales, sollicitudin vel, wisi. Morbi auctor lorem non justo. Nam
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134 dis parturient montes, nascetur ridiculus mus. Aliquam tincidunt urna. Nulla ullamcorper vestibulum
135 turpis. Pellentesque cursus luctus mauris.

Table 1. Automobile Land Speed Records (GR 5-10).

Speed (mph)	Driver	Car	Engine	Date
407.447	Craig Breedlove	Spirit of America	GE J47	8/5/63
413.199	Tom Green	Wingfoot Express	WE J46	10/2/64
434.22	Art Arfons	Green Monster	GE J79	10/5/64
468.719	Craig Breedlove	Spirit of America	GE J79	10/13/64
526.277	Craig Breedlove	Spirit of America	GE J79	10/15/65
536.712	Art Arfons	Green Monster	GE J79	10/27/65
555.127	Craig Breedlove	Spirit of America, Sonic 1	GE J79	11/2/65
576.553	Art Arfons	Green Monster	GE J79	11/7/65
600.601	Craig Breedlove	Spirit of America, Sonic 1	GE J79	11/15/65
622.407	Gary Gabelich	Blue Flame	Rocket	10/23/70
633.468	Richard Noble	Thrust 2	RR RG 146	10/4/83
763.035	Andy Green	Thrust SSC	RR Spey	10/15/97

Source: https://www.sedl.org/afterschool/toolkits/science/pdf/ast_sci_data_tables_sample.pdf

Table 1—source data 1. This is a description of a data source.

Table 1—source code 1. This is a description of a source code.

136 Nulla malesuada porttitor diam. Donec felis erat, congue non, volutpat at, tincidunt tristique, libero.
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149 Discussion

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168 Maecenas lacinia. Nam ipsum ligula, eleifend at, accumsan nec, suscipit a, ipsum. Morbi blandit ligula
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170 purus vel magna. Integer non enim. Praesent euismod nunc eu purus. Donec bibendum quam in tellus.
171 Nullam cursus pulvinar lectus. Donec et mi. Nam vulputate metus eu enim. Vestibulum pellentesque
172 felis eu massa.

173 **Acknowledgment**

174 This preprint was created using the LaPreprint template (<https://github.com/roaldarbol/lapreprint>) by
175 Mikkel Roald-Arbøl .

176 **Author contributions**

177 Consider using a contribution table for clarity. I may add it later. Conceptualization: E.S., B.H.; Method-
178 ology: B.H.; Software: B.H.; Validation: S.R.; Formal analysis: S.R.; Investigation: E.S.; Resources: B.H.;
179 Writing - original draft: E.S.; Writing - review & editing: S.R., B.H.; Visualization: S.R.; Supervision: B.H.;
180 Project administration: B.H.; Funding acquisition: B.H.

181 **Supplementary**

182 Insert the supplementary text here.

184 TTT, by Piet Hein

185 Problems worthy

186 of attack

187 prove their worth

188 by hitting back.

189 Put up in a place

190 where it's easy to see

191 the cryptic admonishment

192 T.T.T.

193 When you feel how depressingly

194 slowly you climb,

195 it's well to remember that

196 Things Take Time.

197 The road to wisdom? - Well, it's plain

198 and simple to express:

199 Err

200 and err

201 and err again

202 but less

203 and less

204 and less.



205 **Appendix 1—figure 1.** This is a figure in the appendix

212 **Appendix 2**

213

Key resources

214

Here could be a nice table of your resources.

215



Figure 2—figure supplement 1. There is no limit on the number of Figure Supplements for any one primary figure. Each figure supplement should be clearly labelled, Figure 1—Figure Supplement 1, Figure 1—Figure Supplement 2, Figure 2—Figure Supplement 1 and so on, and have a short title (and optional legend). Figure Supplements should be referred to in the legend of the associated primary figure, and should also be listed at the end of the article text file.

216



Figure 3—figure supplement 1. This is a supplementary figure's full caption, which will be used at the end of the manuscript.

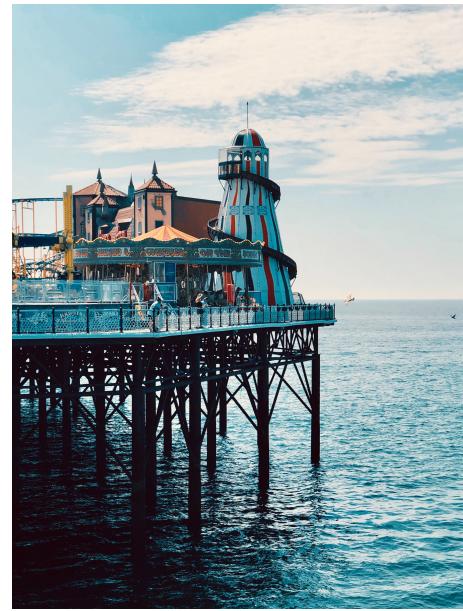


Figure 3—figure supplement 2. This is another supplementary figure.