

# Inferences and Effect Sizes for Direct, Indirect, and Total Effects in Continuous-Time Mediation Models

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## Description

Research compendium for the manuscript Pesigan, I. J. A., Russell, M. A., & Chow, S.-M. (2025). Inferences and Effect Sizes for Direct, Indirect, and Total Effects in Continuous-Time Mediation Models. *Psychological Methods*. <https://doi.org/10.0000/0000000000>

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Computations for this research were performed on the Pennsylvania State University's Institute for Computational and Data Sciences' Roar supercomputer. See `.sim/README.md` and the scripts in the `.sim` folder in the [GitHub](#) repository for more details on how the simulations were performed.

## Installation

You can install the released version of `manCTMed` from [GitHub](#) with:

```
install.packages("remotes")  
remotes::install_github("jeksterslab/manCTMed")
```

See [Containers](#) for containerized versions of the package.

## Author-Accepted Manuscript

See <https://github.com/jeksterslab/manCTMed/blob/main/.setup/latex/manCTMed-manuscript.Rtex> for the latex file of the manuscript. See <https://github.com/jeksterslab/manCTMed/blob/latex/manCTMed-manuscript.pdf> for the compiled PDF.

## R Package

Effect sizes, standard errors and confidence intervals for the direct, indirect, and total effects for continuous-time mediation models as well as visualization tools are available in the `cTMed` package available on the Comprehensive R Archive Network (CRAN) (<https://CRAN.R-project.org/package=cTMed>). Documentation and examples can be found in the accompanying website (<https://jeksterslab.github.io/cTMed>).

## More Information

See [GitHub Pages](#) for package documentation.

## References

- Pesigan, I. J. A., Russell, M. A., & Chow, S.-M. (2025). Inferences and effect sizes for direct, indirect, and total effects in continuous-time mediation models. *Psychological Methods*.
- R Core Team. (2025). *R: A language and environment for statistical computing*. R Foundation for Statistical Computing. Vienna, Austria. <https://www.R-project.org/>