Severe CDI manuscript

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- 1 ABSTRACT TODO
- 2 IMPORTANCE TODO
- KEYWORDS: C. difficile infection, supervised machine learning

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4 INTRODUCTION

- 5 TODO
- A few ways to define CDI severity (Figure 1)
- 7 RESULTS
- 8 TODO
- 9 DISCUSSION
- 10 TODO

11 MATERIALS AND METHODS

- 12 CDC definition of severe CDI (1).
- 13 TODO (2, 3, 4)

14 ACKNOWLEDGEMENTS

15 TODO

16 REFERENCES

- McDonald LC, Coignard B, Dubberke E, Song X, Horan T, Kutty PK. 2007. Recommendations for Surveillance of Clostridium Difficile—Associated Disease. Infect Control & Epidemiol 28 (2):140–145. doi:10.1086/511798.
- Schloss PD, Westcott SL, Ryabin T, Hall JR, Hartmann M, Hollister EB, Lesniewski RA, Oakley BB, Parks DH, Robinson CJ, Sahl JW, Stres B, Thallinger GG, Van Horn DJ, Weber CF. 2009. Introducing Mothur: Open-Source, Platform-Independent, Community-Supported Software for Describing and Comparing Microbial Communities. Appl Environ Microbiol 75 (23):7537–7541. doi:10.1128/AEM.01541-09.
- 3. **Topçuoğlu BD, Lapp Z, Sovacool KL, Snitkin E, Wiens J, Schloss PD**. May 2021. Mikropml: User-Friendly R Package for Supervised Machine Learning Pipelines. JOSS 6 (61):3073. doi:10.21105/joss.03073.
- 4. **Sovacool K, Lesniak N, Schloss P**. 2022. Schtools: Schloss Lab Tools for Reproducible Microbiome Research doi: 10.5281/zenodo.6540687.

FIGURES

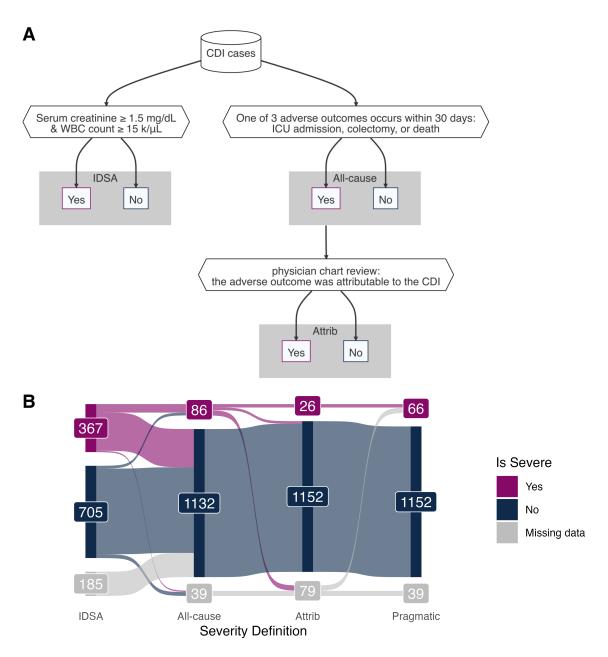


FIG 1 CDI severity definitions. A) B)