The Emergency Department Contact Network Predicts Patient Acuity

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Abstract

Preventable patient deterioration in the Emergency Department (ED) is an unacceptable source of patient morbidity and mortality. Across the United States, the standards of practice in place that are meant to identify patients at risk for rapid deterioration are heavily reliant on human recognition and communication. A real-time patient acuity monitoring system could minimize preventable patient deterioration by automatically alerting necessary resources when a patient's condition worsens. This study presents the first step in the process of creating such a system by testing the relationship between patient acuity, changes in contact network position, and disposition.

Background

Installation. If the document class *elsarticle* is not available on your computer, you can download and install the system package *texlive-publishers* (Linux) or install the LaTeX package *elsarticle* using the package manager of your TeX installation, which is typically TeX Live or MikTeX.

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Methods

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Results

Discussion

Conclusion

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Here are two sample references: Allaire et al. (2017; R Core Team 2017)

References

Allaire, JJ, R Foundation, Hadley Wickham, Journal of Statistical Software, Yihui Xie, Ramnath Vaidyanathan, Association for Computing Machinery, et al. 2017. *Rticles: Article Formats for R Markdown*. https://CRAN.R-project.org/package=rticles.

R Core Team. 2017. *R: A Language and Environment for Statistical Computing*. Vienna, Austria: R Foundation for Statistical Computing. https://www.R-project.org/.