

Your Awesome Title

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Running headline: Environment and species richness

Abstract: Your awesome abstract here.

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Introduction

The first case of Covid-19 was recorded in the United States in January 22, 2020 according to the CDC. As of December 5, 2021, the United States has reported more than 780000 deaths due to Covid-19, more than any other country ([ny_times_coronavirus_2021?](#)). Initially, non-pharmaceutical methods were used to help stop the spread of Covid-19, including the closing of many public spaces, encouraging social distancing, and encouraging the use of masks to help reduce transmission rates. However

Mask mandates and social distancing have both been proven to reduce the transmission of Covid-19 ([Ferguson et al. 2020](#), [Lyu and Wehby 2020](#), [Nguyen 2021](#))

In this study, I investigate the total infection prevalence per county. I also compare the prevalence per county

Methods

Here is the method section. You can include equations easily. For inline equations, use $\text{var}(X) = p(1 - p)$. For display equation, use

$$\text{var}(X) = p(1 - p)$$

Results

Tables Insert tables by kable in knitr package in R. Then cross-reference it back with: see Table ??.

Put results inline, e.g. the mean species richness is.

Figures Insert figure by code chunk. And cross-ref it back as Figure ??.

Or if you already have the figure:

And cite it as Figure ??.

More details can be found at here².

References

- Ferguson, N., D. Laydon, G. Nedjati Gilani, N. Imai, K. Ainslie, M. Baguelin, S. Bhatia, A. Boonyasiri, Z. Cucunuba Perez, G. Cuomo-Dannenburg, A. Dighe, I. Dorigatti, H. Fu, K. Gaythorpe, W. Green, A. Hamlet, W. Hinsley, L. Okell, S. Van Elsland, H. Thompson, R. Verity, E. Volz, H. Wang, Y. Wang, P. Walker, P. Winskill, C. Whittaker, C. Donnelly, S. Riley, and A. Ghani. 2020. Report 9: Impact of non-pharmaceutical interventions (NPIs) to reduce COVID19 mortality and healthcare demand. Imperial College London.
- Lyu, W., and G. L. Wehby. 2020. Community Use Of Face Masks And COVID-19: Evidence From A Natural Experiment Of State Mandates In The US. *Health Affairs* 39:1419–1425.
- Nguyen, M. 2021. Mask Mandates and COVID-19 Related Symptoms in the US. *ClinicoEconomics and Outcomes Research: CEOR* 13:757–766.

²<https://bookdown.org/yihui/bookdown/>

Supporting Information

Figures