Newspapers in Times of Low Advertising Revenues *

Faustine Fan

April 4, 2023

Abstract

Newspaper

1. Introduction

(beach?)

- 1.1 Overview of Additional Selected Articles
- 2. Data
- 2.1 Source

2.2 Methodology

This analysis will be performed in R (R Core Team 2022), using the dplyr (Wickham et al. 2022), readxl (Wickham and Bryan 2022), tidyr (Wickham and Girlich 2022), data.table (Dowle and Srinivasan 2022), lubridate (Grolemund and Wickham 2011), haven (Wickham, Miller, and Smith 2022), and tidyverse (Wickham et al. 2019) packages. All figures in the report are generated using ggplot2 (Wickham 2016).

The collection method of our sources varies. For ?@fig-2CoivdDeath, ?@fig-3regionalinfluenza, ?@fig-4lifeexpectancy mentioned in the sources section above, our team believes that they are relatively impartial and objective. For source of ?@fig-1mortality, Murray et. al compiled all countries with high-quality vital registration data for the 1918-20 pandemic and used these data to calculate excess mortality. This might cause certain biases and make the data inaccurate when applying it globally. For example, proper data collection just began in 1918, and only countries that have the resources to properly record the data are chosen. It is reasonable to argue that they are already developed nations, and only including them means that the data is not representing other affected developing nations at the time.

2.2 Features

3. Results

Excess mortality rate is the rate of deaths from all causes during a crisis (in this case, the pandemic) above and beyond what we would have expected to see under "normal" conditions. It is imperative to understand which group is the most vulnerable, since that information can aid our healthcare system to mitigate the impact. In figure 1 below, we have compared the mortality rate with age groups and gender during the 1918 Influenza. There is a clear spike of excess death rate for male and female populations in the 25 to 29 age group. In addition, the H1N1 virus seems to be most effective at killing young adults and the middle age population from 15 to 39. Furthermore, males have a higher chance of death overall when compared to females during the influenza in those 13 recorded countries.

^{*}Code and data are available at:https://github.com/Faustine123/Newspapers-in-Times-of-Low-Advertising-Revenues

4. Discussion

4.1 Findings

We can clearly see that the Influenza and COVID-19 affects vastly different age groups in the above section(?@fig-1mortality)(?@fig-2CoivdDeath).

- 4.2
- 4.3 Ethical Implications
- 4.4 Potential Bias
- 4.5 Limitations of Our Paper
- 4.6 Possible Next Steps

- ## References
- Dowle, Matt, and Arun Srinivasan. 2022. Data.table: Extension of 'Data.frame'. https://CRAN.R-project.org/package=data.table.
- Grolemund, Garrett, and Hadley Wickham. 2011. "Dates and Times Made Easy with lubridate." *Journal of Statistical Software* 40 (3): 1–25. https://www.jstatsoft.org/v40/i03/.
- R Core Team. 2022. R: A Language and Environment for Statistical Computing. Vienna, Austria: R Foundation for Statistical Computing. https://www.R-project.org/.
- Wickham, Hadley. 2016. *Ggplot2: Elegant Graphics for Data Analysis*. Springer-Verlag New York. https://ggplot2.tidyverse.org.
- Wickham, Hadley, Mara Averick, Jennifer Bryan, Winston Chang, Lucy D'Agostino McGowan, Romain François, Garrett Grolemund, et al. 2019. "Welcome to the tidyverse." *Journal of Open Source Software* 4 (43): 1686. https://doi.org/10.21105/joss.01686.
- Wickham, Hadley, and Jennifer Bryan. 2022. Readxl: Read Excel Files. https://CRAN.R-project.org/package=readxl.
- Wickham, Hadley, Romain François, Lionel Henry, and Kirill Müller. 2022. Dplyr: A Grammar of Data Manipulation. https://CRAN.R-project.org/package=dplyr.
- Wickham, Hadley, and Maximilian Girlich. 2022. *Tidyr: Tidy Messy Data.* https://CRAN.R-project.org/package=tidyr.
- Wickham, Hadley, Evan Miller, and Danny Smith. 2022. Haven: Import and Export 'SPSS', 'Stata' and 'SAS' Files.