Fall 2021 CS 687 Capstone Project

Annotated Bibliography

Online Vaccine Scheduler

Anil Erturk

Advisor: Dr. Ahreum Ju, Dr. Sam Chung

MS in Computer Science  
School of Technology & Computing (STC)

City University of Seattle (CityU)

erturkanil@cityuniversity.edu, juahreum@cityu.edu, chungsam@cityu.edu

**1.** **REFERENCE**

Reference 1

Park, S. W., Sun, K., Viboud, C., Grenfell, B. T., & Dushoff, J. (2020). Potential Role of Social Distancing in Mitigating Spread of Coronavirus Disease, South Korea. Emerging Infectious Diseases, 26(11), 2697–2700.

Summary

This article analyzes the coronavirus transmission over a year and comes to the conclusion that there is more than one strategy that can be used to combat coronavirus.

Value

I don’t know if this study from South Korea is applicable to every country. The United States lets in tons of people without requiring vaccination or covid testing. Not every country is an island or a peninsula with a closeable land border. But seeing how social distancing helps with the spread of the virus is the core idea of my paper so I still think it is applicable to my paper.

They talk about how South Korea was good at reducing transmission. They analyze what was the role of social distancing in this.

Recommendation of wearing masks in everyday life and staying indoors.

Delayed the start of school semesters.

Intensive testing and contact tracing enabled rapid identification and isolation of case patients.

Conlusions,

Epidemics can be suppressed with less extreme measures than those taken by China.

Necessity of prompt identification and isolation of case-patients in preventing spread.

Even though social distancing alone might not prevent spread, it can flatten the epidemic curve.

Reference 2

Cowling, B. J., & Aiello, A. E. (2020). Public Health Measures to Slow Community Spread of Coronavirus Disease 2019. The Journal of Infectious Diseases, 221(11), 1749–1751.

Summary

One of the things this paper does is look at the demographic differences when it comes to the effects of coronavirus, as well as its transmission rate. It also looks at how public health measures didn’t prevent transmission but delayed them.

Value

This paper is very valuable to my project because my project is about a certain public health measure to slow the community spread of coronavirus disease.

To date, measures aimed at slowing the introduction of infection globally have included travel restrictions, isolation of confirmed cases, and quarantine of exposed persons. These measures have delayed but not prevented community transmission.

-Personal protective measures and environmental measures.

The combination of masks and hand hygiene has been shown to reduce transmission of respiratory viruses and serves to highlight that layering of NPIs (nonpharmaceutical interventions) is more effective at reducing disease transmission than any NPI alone.

-Isolation of ill and quarantine of exposed persons.

-Community mitigation measures.

Reference 3

Lin, J., Huang, W., Wen, M., Li, D., Ma, S., Hua, J., Hu, H., Yin, S., Quan, Y., Chen, P., Zhang, Q., Yuan, N., & Sun, S. (2020). Containing the spread of coronavirus disease 2019 (COVID-19): Meteorological factors and control strategies. Science of The Total Environment 744.

Summary

This paper looks at meteorological factors and control strategies for coronavirus.

Value

This paper is very valuable to my project because like I mentioned in reference2, my project is about a certain public health measure to slow the community spread of coronavirus disease. This paper also looks at the meteorological factors which can give me more insight into whether we should do the vaccinations more during warmer weather and outdoors to decrease the transmission further.

Reference 4

Zhu, l., Liu, X., Huang, H., Llaguno, R. D., Lazo, M. M. L., Gaggero, A., Rifo, R., Patino, L., Avellan, M., Diringer, B., Huang, Q., & Zhu, Y. (2020). Meteorological impact on the COVID-19 pandemic: A study across eight severely affected regions in South America. Science of The Total Environment 744.

Summary

This paper is about eight severely affected regions with varied meteorological factors.

Value

This paper is valuable to my project because understanding how different factors affect disease transmission will affect the public health policies needed to deal with it.

The study shows that absolute humidity was highly negatively correlated to the spread of the COVID-19 in regions with wide humidity ranges.

Reference 5

Okten, I. O., Gollwitzer, A., & Oettingen, G. (2020). Gender differences in preventing the spread of coronavirus. Behavioral science & policy association.

Summary

This paper not only looks at biological differences but also looks at how lifestyle differences in men and women affect their ability to fight coronavirus.

Value

This paper looks at how different factors affect one’s ability to fight coronavirus. This information will be valuable when coming up with a public health policy.

Reference 6

Mallapaty, S. (2020). How do children spread the coronavirus? The science still isn't clear. nature, 581(7807), 1749–1751.

Summary

This paper looks at the virus transmission in younger and older children, as well as teachers. It also looks at how community transmission rate affects these groups. The paper also looks into “large groups gathering indoors for extended periods of time providing an ideal setting for coronavirus transmission”. The paper suggests these trends should be taken into account during policy discussions.

Value

This paper also looks at how different factors affect coronavirus transmission and how these factors need to be taken into account for policymaking.

Reference 7

Kwon, Y., Cho, H., Lee, Y., Bae, G., Lee, S. (2010). Relationship between intention of novel influenza A (H1N1) vaccination and vaccination coverage rate. Vaccine, 29(2), 161–165.

Summary

This paper looks into the factors that affect the willingness of humans to get a vaccine. These included fear for novel influenza, the possibility to be infected by it, a new vaccine being relatively untested, and the belief in the effectiveness of the vaccine. The paper also looks into why the intention to receive the vaccine was high but the actual vaccination coverage was lower than the intention.

Value

This paper gives us insight into how past diseases were handled. The factors for vaccination intent seem to be the same. We can look into their experience with reservation systems and how this factor affected old people in particular.

Reference 8

Larson, G. S., Baseler, B.R., Hoover, M. L., Pierson, J. F., Tegli, K. J., Johnson, M. P., Kieh, M. W. S., McNay, L. A., & Njoh, W. S. (2017). Conventional Wisdom versus Actual Outcomes: Challenges in the Conduct of an Ebola Vaccine Trial in Liberia during the International Public Health Emergency. The american journal of topical medicine and hygine, 97(1), 10–15.

Summary

This is another paper that gives us an insight into how past epidemics were handled.

Value

This paper also looks into how the infrastructure, the civil war, and the weak healthcare system affected the fight with the epidemic.

Reference 9

Jiang, H. D. C., Wang, Z., Wang, L., Wang, W. J., Wang, H., Deng, P., Jia, S., Y., Liu, Z. H., & Zhu, F. C. (2020). Exploration and application of a novel attempt to recruit participants in clinical trials of vaccines under the emergency. Chinese Journal of Preventive Medicine, 54(9), 963–967.

Summary

The method for recruiting participants in clinical trials of vaccines in emergency situations.

Value

The paper talks about different mediums and methods they used to find and guide people who are interested in joining the clinical trials of the SARS-CoV-2 Vaccine.

Reference 10

Bukhari, Q., & Jameel, Y. (2020). Will Coronavirus Pandemic Diminish by Summer?

Summary

The paper talks about how the coronavirus is affected by the weather just like influenza.

Value

Knowing more about all the factors that affect the transmission and efficacy of coronavirus will help us make the best choices when it comes to public health policy.

Reference 11

Price, G., & Holm, E. (2021). The Effect of Social Distancing on the Early Spread of the Novel Coronavirus. Social Science Quarterly

Summary

The paper puts into quantifiable terms the effect of social distancing on the spread of the novel coronavirus.

Value

This paper is very valuable to my project because social distancing is one of the core principles of my project.

The number of state-level COVID-19 infections decreased with respect to our measure of individual social distancing.

Reference 12

Sallis, J. F., Adlakha, D., Oyeyemi, A., & Salvo, D. (2020). An international physical activity and public health research agenda to inform coronavirus disease-2019 policies and practices. The Journal of Sport and Health Sciences, 9(4), 328–334.

Summary

This paper also looks at the effects of depression and other results of coronavirus-related public health policies.

Value

This is another valuable paper for my project because my project is related to coronavirus, its transmission, and public health policies related to the transmission of the coronavirus. This paper will give me a lot of insight into all of these subjects.

Active muscles produce chemicals that improve immune functioning.

“PA has multiple well-documented benefits directly related to reducing the impact of the COVID-19 infection itself, as well as helping the global population cope with the isolation and stress caused by the pandemic. Yet PA is not being strategically nor systematically promoted to reduce harms from the current pandemic.”

Reference 13

Bogg T., & Milad, E. (2020). Demographic, Personality, and Social Cognition Correlates of Coronavirus Guideline Adherence in a U.S. Sample. Health Psychology 39(12) 1026-1036.

Summary

Looks at the factors that positively or negatively correlate to people adhering with coronavirus guidelines.

Value

This is valuable to my paper because my paper is about looking at the factors that affect the disease transmissibility and creating public health policies upon them. This paper brings a new perspective by also making us think about why and why not people care about health guidelines.