

DATA ANALYSIS AND VISUALISATION
ASSESSMENT 1

“Where is Coronavirus Rising & Falling?”

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Executive summary

Data analysis and visualization process helps to provide a clear description and distribution of the selected dataset. Infographic is a visual representation process that helps to identify the trend of the dataset by using the analysis of the infographics. This section uses the infographic data visualization technology to access the progress of the Covid-19 virus in various countries of the world. This observation helps to outline the rising and falling trends of Corona virus in different countries of the globe. This section also analyzes the excel sheet information to obtain the success and failure of the various hospitals and health boards in treating the patients.

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**Consider the “Where is Coronavirus Rising & Falling?” infographic available on moodle.
Write a short (about 1000 word) discussion of how this is a means for presenting the
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Introduction

In this assignment, the researcher has concentrated on the latest global crisis of coronavirus. The researcher has been provided with a data set from which the researcher has considered the rise and fall of the coronavirus. The information has been decoded from the infographic by the researcher to understand the progress of the virus in various countries of the world. The countries most affected have been shown in red and the countries with a decreasing number of cases have been shown in blue. The red shows the most suffered countries, the orange for moderately suffered countries and yellow for the lowest increasing number. In the second task, the researcher has evaluated the answer to the given questions from the excel sheet showing the number of patients admitted and released within a span of three months. This shows the success and failure of the various hospitals and health boards in treating the patients.

Task 1

Consider the “Where is Coronavirus Rising & Falling?” infographic available on moodle. Write a short (about 1000 word) discussion of how this is a means for presenting the information it contains.

The infographic provided shows the rise and fall of coronavirus in different countries. As the infographic shows, that has been created on the basis of the rising and falling number of cases on a weekly basis; Australia has suffered by significant cases of Covid-19 infections in recent months. The infographic has been created keeping the increasing order on the right side and decreasing order on the left-hand side. The highest order of increasing and decreasing order has been set to 12 percent. This infographic provided the readers the knowledge about the countries with increasing and decreasing order of the coronavirus cases (Rankin and Heron, 2020, p. 12). This helps in understanding the countries that are suffering the most and the least. It also helps in understanding the countries that need urgent medical help. This infographic rather provides a bunch of learning and understanding. It shows the countries with better medical services and better immunity among the citizens as they have been successful in resisting the virus and treats the affected patients. It also provides knowledge about the pattern of progression of the virus throughout the world.

The countries with a red mark that touches the +12% mark are the most affected countries. They are Azerbaijan, El Salvador, and Switzerland. The countries that crossed the +10 percent mark or very near it are Belgium, Ghana, Haiti, Italy, and Poland. The countries to cross the +8 percent mark or near it are Bulgaria, Cuba, Czechia, and Portugal. France, Germany, Malaysia, Serbia were found to cross the +6 percent mark. Angola, Canada, Jordan, Netherlands crossed the +4 percent mark which shows that each week they have a 4% increase in the number of active cases that the previous week (Carmody *et al.* 2020, p. 1362). The countries to cross +2 percent were Algeria, Austria, Greece, Hungary, Honduras, Morocco, and the USA. These countries in the infographic have been shown in a yellow mark which shows that though they have an increasing order but a lower increasing pace compared to the countries at the top of the infographics. The countries very near to +10 percent or crossing it has been marked in red lines which shows the emergency medical situation in the countries.

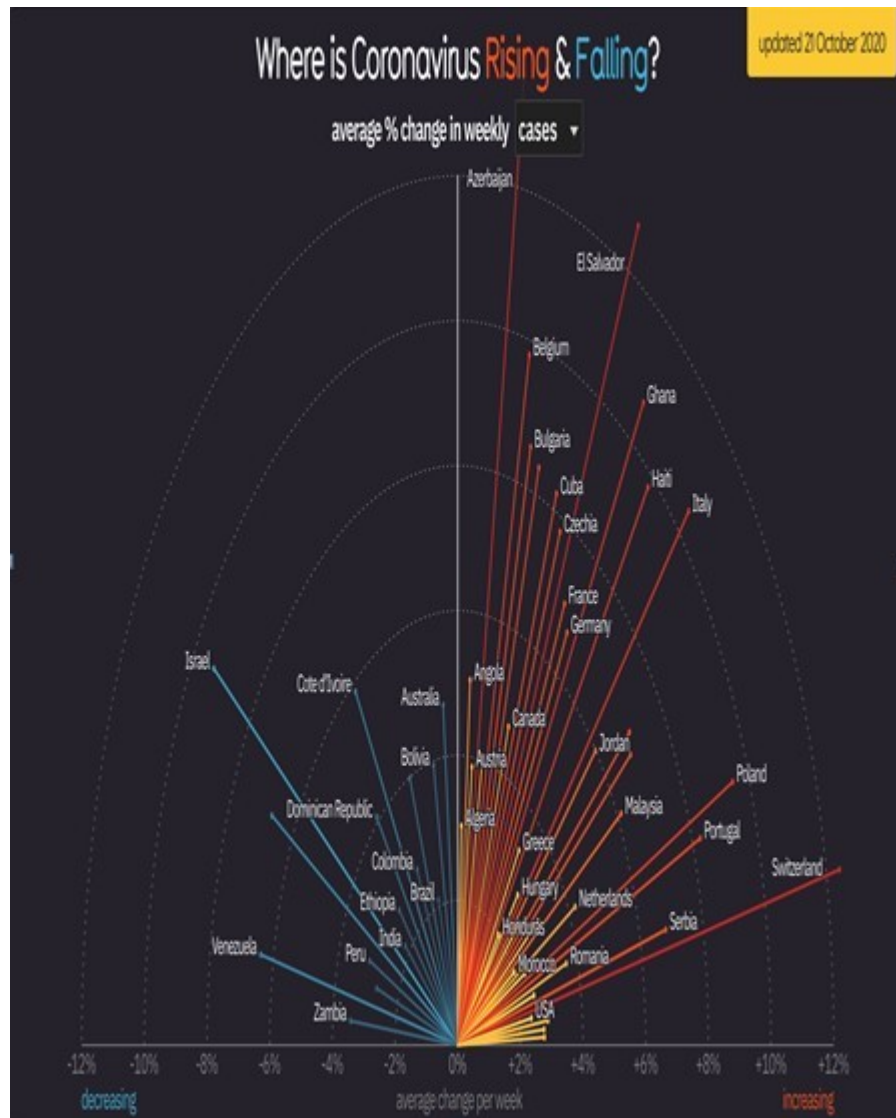


Figure 1: Infographic on the rising and falling of coronavirus cases

(Source: Provided)

The mediocre countries in the infographic have been shown in orange color who stay in the middle position. Most of the countries are either marked in yellow or orange which shows a slight increasing pattern of the virus. The most affected countries are less in the world. This information would be helpful for medical experts and scientists to study the pattern and severity of the virus (Susanti *et al.* 2020, p. 334).

Now coming to the left-hand side to find the countries with less severity of the virus and decreasing pattern of the virus; countries with decreasing order have been found to be Israel, Venezuela, Dominican Republic, Cote d' Ivoire, Bolivia, India, and many others.

The only country to have the highest decreasing order is Israel which is near to almost -10 percent. The next country to cross the mark of -6 percent is Venezuela. Most of the countries that have crossed or either near to 2 percent ratio; are Zambia, Peru, India, Ethiopia, Colombia, Brazil, and Bolivia (Jacob *et al.* 2020, p. 126). The mediocre countries, which are related to the decreasing cases of Covid-19, are the Dominican Republic, Cote d' Ivoire, and Australia. If the cluster of the countries in the increasing and decreasing movement compared, most of the countries are found to be in the increasing section. These findings show the most countries are suffering from the medical crisis and fewer countries are on the safe side. This data has been updated till 21st October 2020.

Additional global statistics

The additional analysis that the researcher has gathered from the infographic is that though updated shows the USA on the less increasing side, but the USA had the most number of deaths of almost 282829 and India in the second place with 139227 deaths (Berardi *et al.* 2020, p. 11). Therefore the number of cases and death and mortality does not represent the increasing and decreasing number. The USA has been in the lower section of the increasing order yet have the highest mortality rate, whereas India in the decreasing order of virus but still in the second place. A pattern that has been understood from this by the researcher is that the mutation strains of the virus vary from country to countries which results in the fluctuations of numbers. The USA was reported to have the most number of mutations hence the most number of deaths, whereas India was found to have the least number of mutations yet deaths were more due to the severity but weekly cases were less compared to many countries (Zdravkovic *et al.* 2020, p. 241). The more the mutations more is the death that is clear from the infographic. It could be suggested by the researcher to have an infographic based on the 24 hours record which would provide more clear information about the impact of the virus.

Conclusion

Through the assignment, the researcher has consulted the provided info-graph and the excel sheet to answer the questions and evaluate information from it. The provide infographic shows the countries with a rising number of active cases of coronavirus based on the rise and fall in the weekly cases. Very few countries were found to be on the safe side with most of the countries suffering the most. It shows the severity of the virus and the need for immediate medical help and service in those countries.

References

- Berardi, C., Antonini, M., Genie, M.G., Cotugno, G., Lanteri, A., Melia, A. and Paolucci, F., 2020. The COVID-19 pandemic in Italy: policy and technology impact on health and non-health outcomes. *Health Policy and Technology*.
- Carmody, S., Ahmad, I., Goutteborge, V., Malhotra, A., Glover, D. and Massey, A., 2020. Infographic. Football-specific strategies to reduce COVID-19 transmission. *British Journal of Sports Medicine*, 54(22), pp.1362-1364.
- Chan, A.K., Nickson, C.P., Rudolph, J.W., Lee, A. and Joynt, G.M., 2020. Social media for rapid knowledge dissemination: early experience from the COVID-19 pandemic.
- Jacob, O.N., Abigeal, I. and Lydia, A.E., 2020. Impact of COVID-19 on the higher institutions development in Nigeria. *Electronic Research Journal of Social Sciences and Humanities*, 2(2), pp.126-135.
- Louie, P.K., Harada, G.K., McCarthy, M.H., Gernscheid, N., Cheung, J.P., Neva, M.H., El-Sharkawi, M., Valacco, M., Sciubba, D.M., Chutkan, N.B. and An, H.S., 2020. The impact of COVID-19 pandemic on spine surgeons worldwide. *Global Spine Journal*, p.2192568220925783.
- Marivate, V. and Combrink, H.M., 2020. Use of Available Data To Inform The COVID-19 Outbreak in South Africa: A Case Study. *Data Science Journal*, 19(1).
- Panda, C., Sahoo, J.P. and Samal, K.C., 2020. Impact of Covid-19 Pandemic on the Environment and Human Health. *agrinenvy.com*, p.73.
- Rankin, A. and Heron, N., 2020. Infographic. Managing a confirmed or suspected COVID-19 case: a guide for sports. *British Journal of Sports Medicine*.
- Sepulveda-Lovola, W., Rodriguez-Sánchez, I., Perez-Rodriguez, P., Ganz, F., Torralba, R., Oliveira, D.V. and Rodriguez-Mañas, L., 2020. Impact of social isolation due to COVID-19 on health in older people: Mental and physical effects and recommendations. *The journal of nutrition, health & aging*, pp.1-10.
- Susanti, S.A., Othman, L., Prihatin, P.S. and Teguh, P., 2020. Government Efforts In Public Policy: Infographic And Distribution Of Covid 19. *Al Qodiri: Jurnal Pendidikan, Sosial dan Keagamaan*, 18(2), pp.334-342.
- Wan, K.H., Lin, T.P., Ko, C.N. and Lam, D.S., 2020. Impact of COVID-19 on Ophthalmology and Future Practice of Medicine.
- Zdravkovic, M., Berger-Estilita, J., Zdravkovic, B. and Berger, D., 2020. Scientific quality of