**Writing assignment 4**

COVID-19 has been wreaking havoc on the world since 2020, although we know a lot more about this virus now there are still some big questions. Scientists and researchers have been trying to debunk the mysteries about the corona virus. USA Today wrote an article about studies find that genetics play a role on why the virus impacting people different ways and who it impacts in general. The question is: why do some people get in and some people don’t? Even if the people are sharing a bed or spend a lot of time together one may get it and the other one wont. Some common factors that have been proven are that the elderly may be more susceptible and individuals who smoke, are obese or have diabetes, or have a compromised immune system are more likely to catch this deadly virus. Even with that knowledge young healthy people have died and elderly people in cancer treatment have survived, all with different symptoms (USA Today). This article explains a study that was done that looks into people genetics to help explain the difference in severity in this strange, inconsistent virus. Andrea Ganna, a group leader at the Finnish Institute for Molecular Medicine and an instructor at Harvard Medical School and Massachusetts General Hospital, say that genetics play an even bigger role in why younger healthy people may be at more of a risk.

This study confirms or newly identifies 13 genes that appear to play a role a susceptibility to infection that has to do with the severity of the illness. The article doesn’t explain a whole much more than that. It states that some of the genes makes sense but doesn’t state what genes or what they do or anything. It talks about blood type having no effect and obesity might have an effect. It states that one if the genes is involved in the response to respiratory infections. The article seems to only state that the study has identified 13 genes that play a role in the infection and severity. They used 50,000 patients across 25 counties to conduct the study, stating diversity is crucial in these studies because it helps identify different genes in different people. This study was the first genetic study on covid-19 that involves people from all over the world. This article is written for the general public to understand, if they started throwing out all sorts of gene names and where they came from it might turn into a review article and the general public might get bored. This news article is general an easy read and easy enough to understand.

There was a study done to review the current evidence to investigate the genetic susceptibility of the corona virus that linked patterns of traits to different outcomes of this virus. They studied the genetic vulnerability of covid-19. They went through different data sources to determine the study selection, extracted data from the summarization process and performed a quality assessment on the information that was extracted from each of the articles they went through. They used that strategy to review all the findings of 79- full text articles. They examined the genotype and receptors of cell entry. They went through the genome and found that the severity and susceptibility and some genes associated with the immune system. This study showed that angiotensin-converting enzyme 2 have a correlation between the susceptibility and was recognized as a functional receptor.

The news article from USA Today did a good job at explaining a very in depth study in simple terms. In this particular article there was really any bias or misleading information that can be common found in public news. If the article went into any greater depth about the genetics of covid-19 people may dismiss the acritical because it is too difficult to read. USA Today got the point across and talked about genetics with this virus so people can understand.

Works Cited.

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