

COVID-19 analysis report

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Introduction

Through COVID-19 model data, we investigated the effect of age and gender on mortality and the severity of different symptoms.

Figures

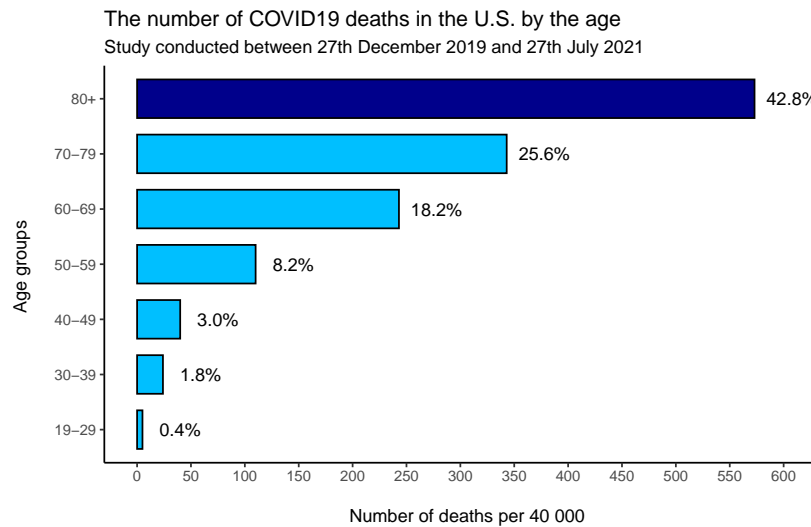


Figure 1. As the age increases the mortality rate rises, with the most significant deaths seen in the 80+ category.

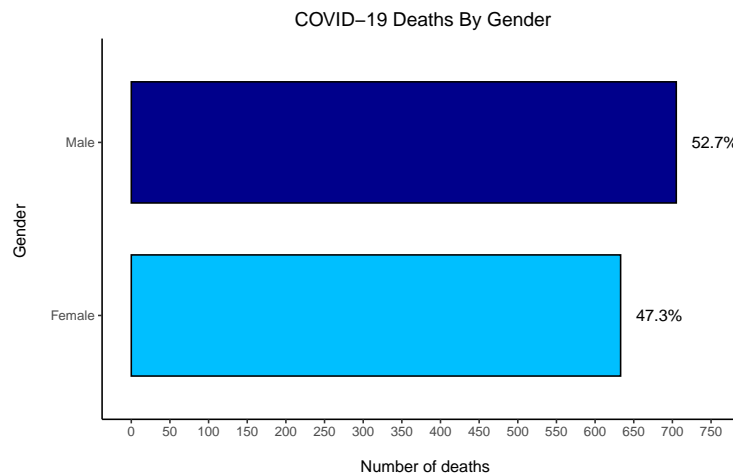


Figure 2. COVID-19 has a male bias in mortality despite less males were sampled. 43,279 females and 38,376 males were sampled. In the 1338 deaths, 633 were females and 705 were males.

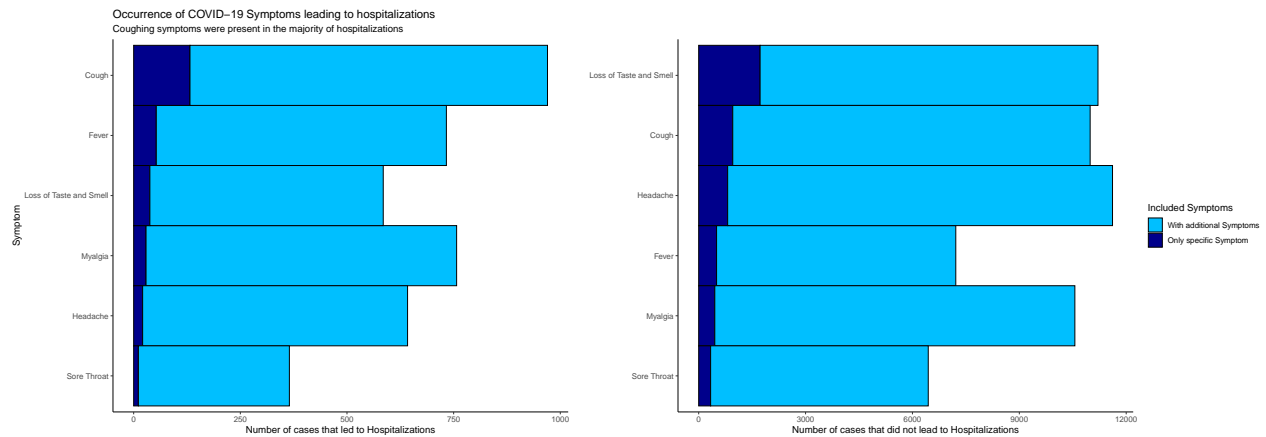


Figure 3. The different symptoms associated with COVID-19 vary in prevalence among cases where individuals were and were not hospitalized. Sore throat was the least prevalent in both groups. Coughing was the most prevalent among those hospitalized both as an individual symptom and as a collective of symptoms, while the loss of taste and smell was the individual most prevalent symptom among those who weren't hospitalized, with headaches being most prevalent collectively along with other symptoms.

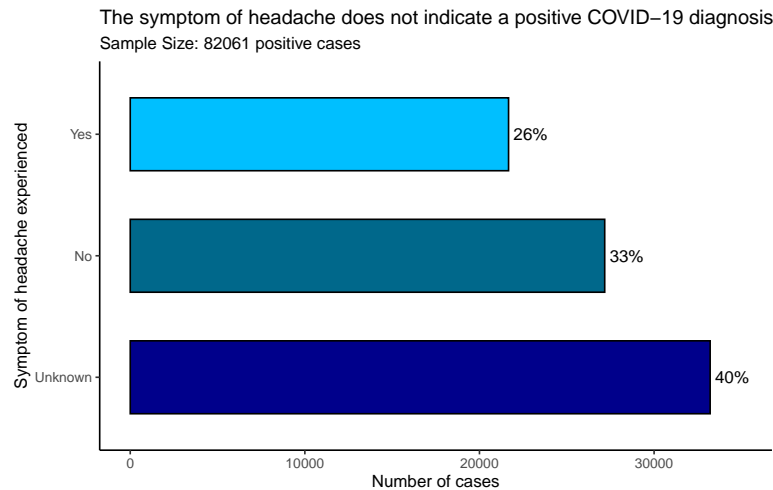


Figure 4. The symptom of headache does not indicate a positive COVID-19 diagnosis. Only 26% of the people with COVID-19 experienced a headache, 33% did not, and the status for the remaining cases could not be confirmed, thus suggesting there is no positive correlation.

Conclusion

Human demographics have been shown to influence the mortality of the various COVID-19 symptoms, with different symptoms such as headaches being more common among people. Consideration of different demographics and awareness of symptoms will be important in future global responses to worldwide diseases.