



# Data Analysis Case Study-1

Do Vaccines work for covid-19?

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**Last Updated: 04-07-2021**



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# Problem Statement

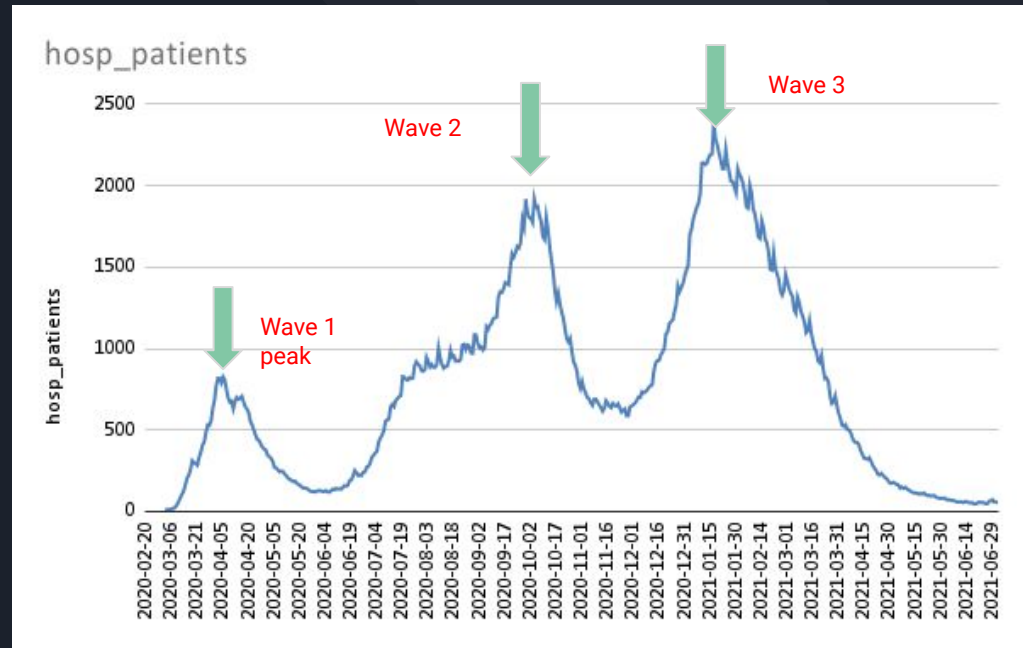
Identify if **vaccines** reduce **hospitalizations** and **mortality rate** in case of **covid-19**.



# Problem Objectives

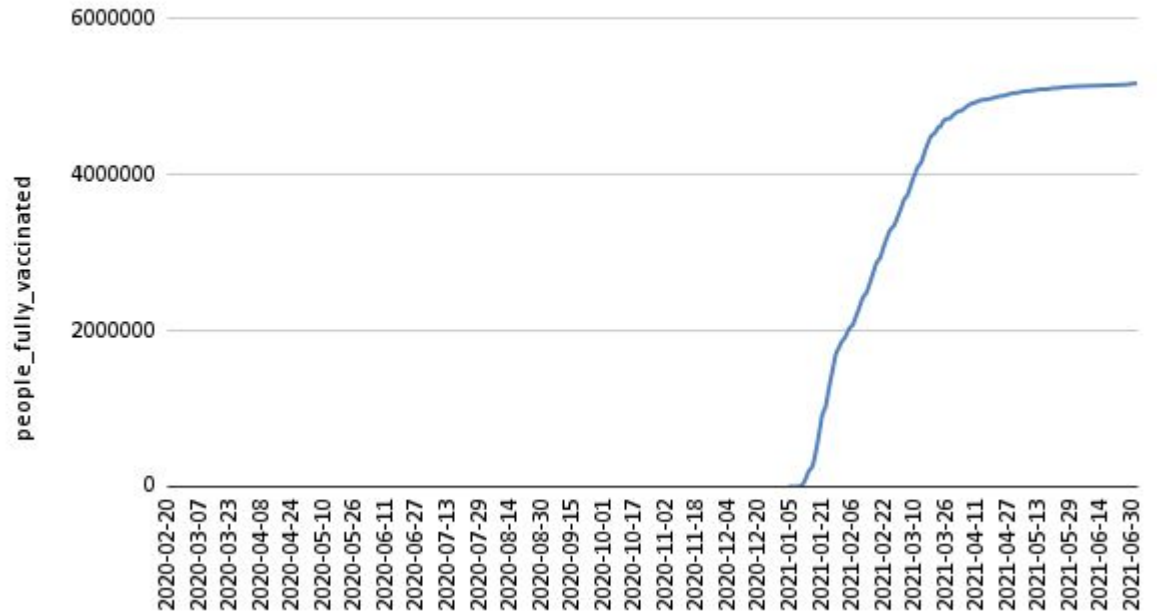
Since the pandemic is still ongoing, a country which has vaccinated a majority of its population was chosen - **Israel**

# Hospitalized Patients



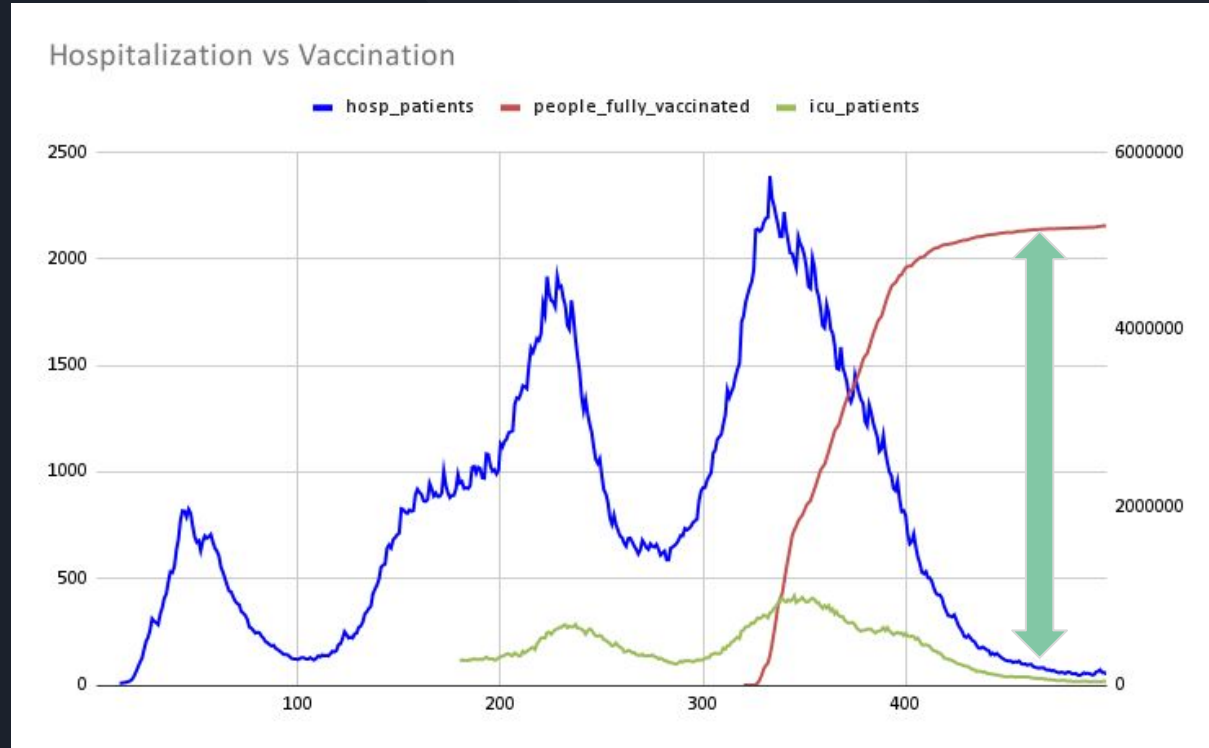
# People Fully Vaccinated

people\_fully\_vaccinated



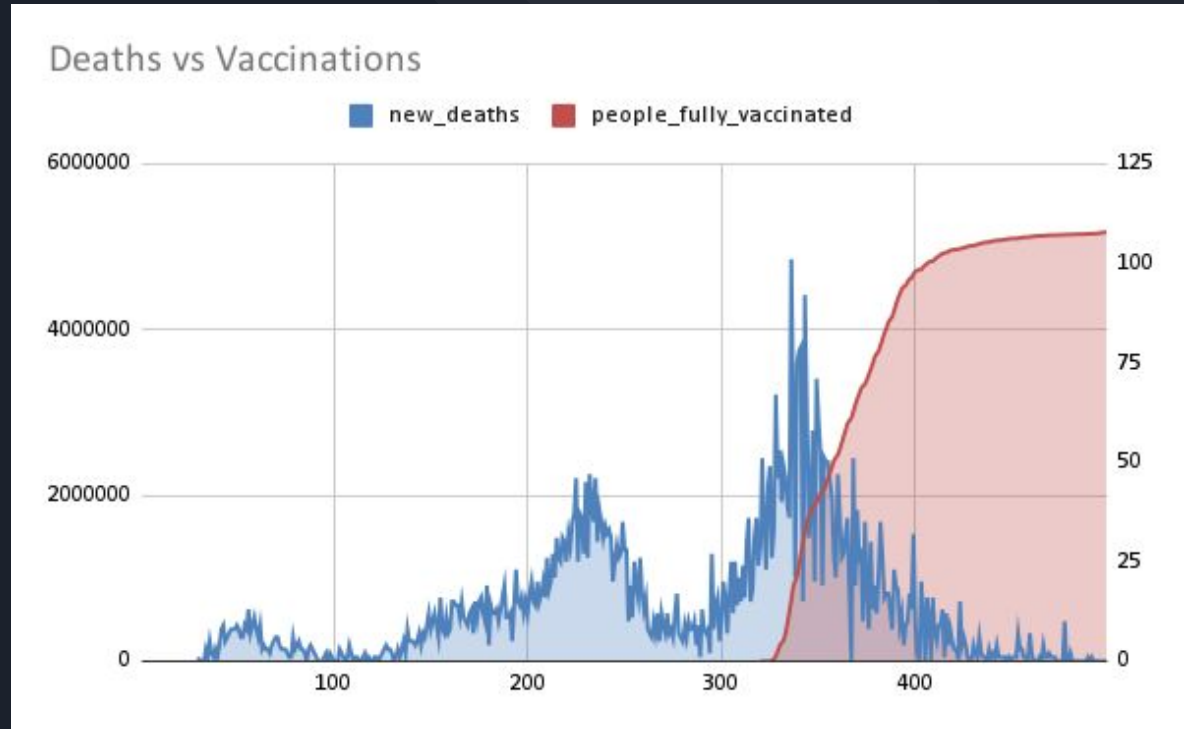
# Hospitalization vs Vaccination

- Strong negative correlation between **Hospitalization instance** and **Vaccinations**.
- Even Stronger negative correlation between **ICU admissions** and **Vaccinations**.
- Increase in Vaccinations have resulted in fewer hospital admissions.



# Death rate vs Vaccination

- Strong negative correlation between **Daily Deaths** and **Vaccinations**.
- Increase in **Vaccinations** have resulted in fewer deaths.





# Conclusion

The background features a series of dark gray, three-dimensional rectangular planes that recede into the distance, creating a sense of depth. A light green parallelogram is positioned on one of the upper planes, and a blue parallelogram is on a lower plane, both adding a pop of color to the monochromatic scheme.

# Conclusion

- Vaccinating people have shown that there are far fewer instances of hospitalization and death after people are fully vaccinated.
- Evidence suggests that the pandemic can be overcome if enough people are vaccinated.
- \*Vaccines work

\*This doesn't take into account of variants of covid-19 and the vaccine type used

# Appendix

Data Source : Our World in Data [Click Here](#)

