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# Vaccines could lead to a variant

## that escapes population immunity

# if we do not vaccinate enough.

### **Evolutionary Pressure of Vaccine-Induced Mutation Probability**

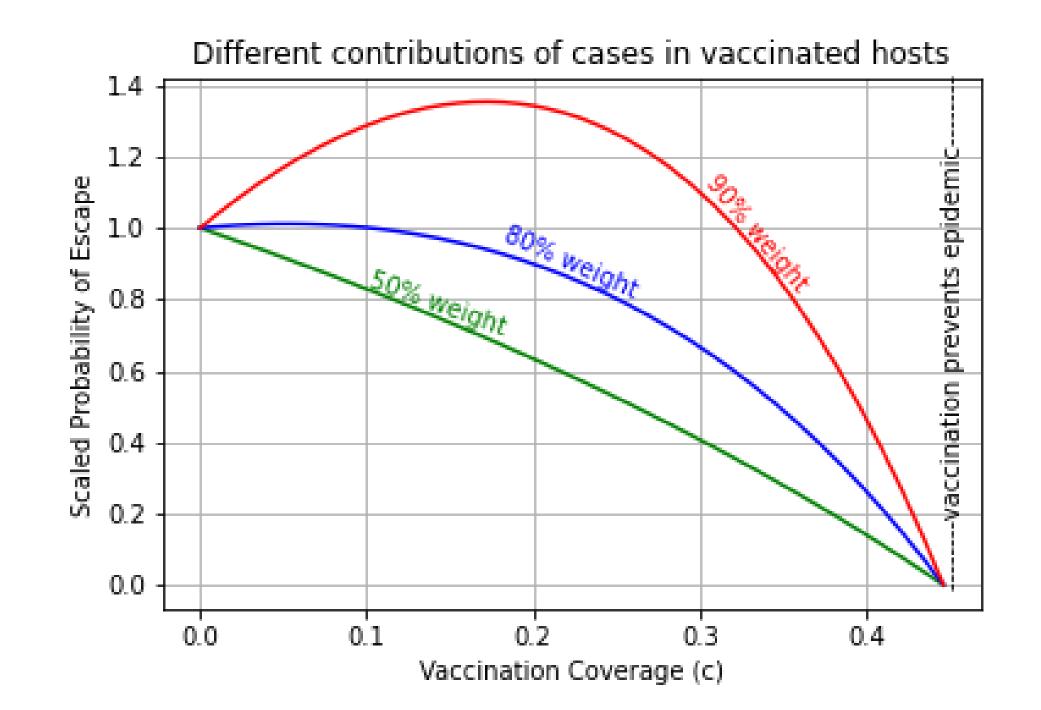
Is a vaccine escape variant more likely to come from a vaccinated or an **unvaccinated** host?

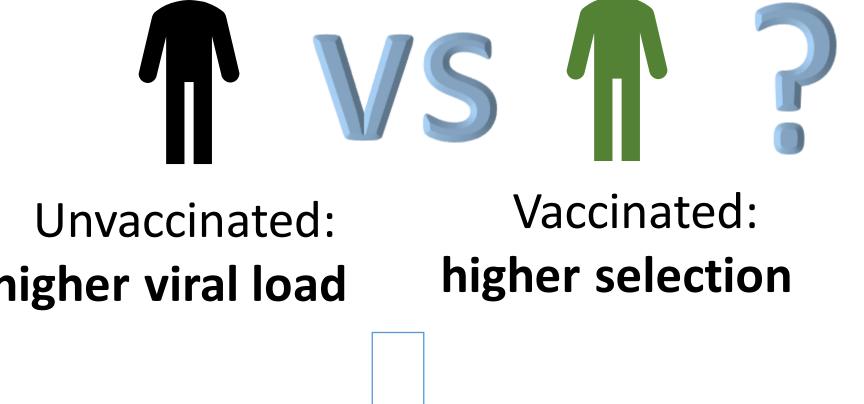
**#Theory** 

**#SIRmodel** 

**#Phylodynamics** 

### Intermediate vaccination coverage can be the most risky...



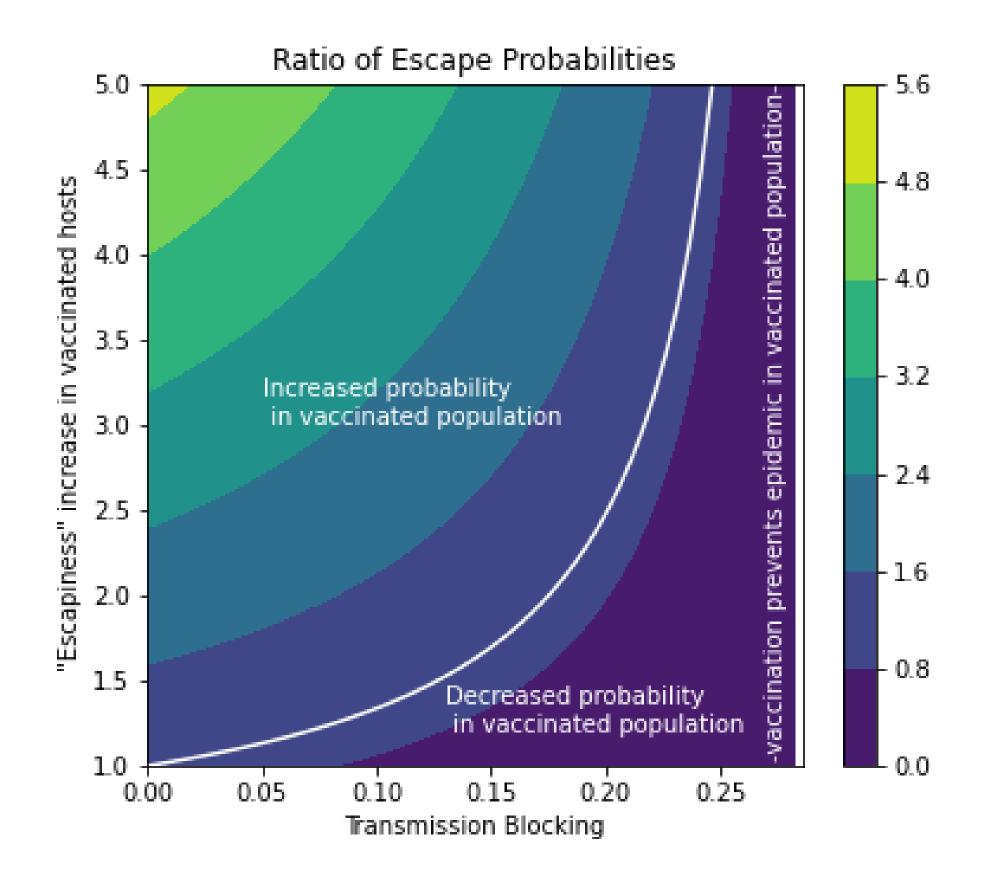


higher viral load

Take as a **variable** the relative probability of escape in vaccinated to unvaccinated

Study **population** level effects

...but highly effective vaccines could reduce the risk of vaccine-escape.







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