

✓ **mathematically** correct

$$p(\text{infected}) < p(\text{vaccinated})$$

✓ **mathematically** correct

$p(\text{infected} \mid \text{vaccinated}) < p(\text{infected} \mid \text{not vaccinated})$

$p(\text{infected} \mid \text{vaccinated}) < p(\text{vaccinated} \mid \text{infected})$

