

# Probability and Risk

Improving public understanding of probability and risk with special emphasis on its application to the law. Why Bayes theorem and Bayesian networks are needed



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## NFL Covid-19 protocols: a glimpse into the future restrictions for all unvaccinated - and a problem for studies into vaccine effectiveness

Protocol Modifications for Vaccinated Individuals	
Fully Vaccinated	Not Fully Vaccinated
<ul style="list-style-type: none"><li>No daily testing required</li></ul>	<ul style="list-style-type: none"><li>Testing required <b>every day</b></li></ul>
<ul style="list-style-type: none"><li>Masks not required at club facility or during team travel</li></ul>	<ul style="list-style-type: none"><li>Masks required at club facility and during travel</li></ul>
<ul style="list-style-type: none"><li>No physical distancing required in club facility with other vaccinated individuals</li></ul>	<ul style="list-style-type: none"><li>Must remain physically distant from others in club facility</li></ul>
<ul style="list-style-type: none"><li>No quarantine required after High Risk exposure to COVID</li></ul>	<ul style="list-style-type: none"><li>Must quarantine after High Risk exposure to COVID</li></ul>
<ul style="list-style-type: none"><li>No travel restrictions</li></ul>	<ul style="list-style-type: none"><li>Travel restrictions in effect</li></ul>
<ul style="list-style-type: none"><li>No capacity limits in weight room when all fully vaccinated</li></ul>	<ul style="list-style-type: none"><li>15 player limit in weight room</li></ul>
<ul style="list-style-type: none"><li>May eat in cafeteria with other fully vaccinated individuals</li></ul>	<ul style="list-style-type: none"><li>Players must be physically distanced in meal room; may not eat with teammates;</li><li>Staff must grab-and-go; no meals in the cafeteria</li></ul>
<ul style="list-style-type: none"><li>No restrictions on social/media/marketing/sponsorship opportunities</li></ul>	<ul style="list-style-type: none"><li>No social/media/marketing/sponsorship activities permitted</li></ul>
<ul style="list-style-type: none"><li>May use sauna/steam room</li></ul>	<ul style="list-style-type: none"><li>May not use sauna/steam room</li></ul>
<ul style="list-style-type: none"><li>May interact with vaccinated family/friends during team travel</li></ul>	<ul style="list-style-type: none"><li>May not leave team hotel to eat in restaurants; may not interact with anyone outside of Team Traveling Party during team travel</li></ul>

These are the [new Covid-19 protocols for NFL players](#). Eventually these kinds of differences will apply everywhere.

Apart from the civil liberties issues, the fact that only unvaccinated will be routinely tested also means that data on vaccine effectiveness will be massively biased because the vast bulk of people being tested will be asymptomatic unvaccinated people. When real infection rates are low (as they are now) this bias will exaggerate vaccine effectiveness because almost all new 'cases' will be asymptomatics (i.e. unvaccinated) - most of which will be false positives. Yet, if infection rates are high the bias could **underestimate** vaccine effectiveness as the proportion of symptomatics among those tested will be higher for the vaccinated.

We raised this issue of how different testing strategies for unvaccinated compared to vaccinated compromised the big Pfizer study in Israel ..... and are still waiting for a response from The Lancet

## Links

- [NFL reveals extensive restrictions for unvaccinated players in training camp COVID-19 protocols](#)
- Is the Pfizer vaccine as effective as claimed?

at 12:01

Labels: [COVID](#)

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## Book "Risk Assessment and Decision Analysis with Bayesian Networks"

- [Book blog page](#)
- [Buy \(Amazon\)](#)
- [Buy \(CRC Press\)](#)

## Key readings

- [Bayes and causal modelling in decision making, uncertainty and risk](#)
- [Irrational restrictions on Bayes in the Law](#)
- [Probability Fallacies and the Law](#)

## Labels

- [AgenaRisk](#)
- [Bayes and probability theory](#)
- [case study](#)
- [COVID](#)
- [legal reasoning](#)
- [likelihood ratio](#)
- [medical](#)
- [New paper](#)
- [review](#)
- [risk assessment](#)

## Links

- [BAYES-KNOWLEDGE Blog](#)
- [Agena: Bayesian networks](#)
- [Book: Risk Assessment with Bayesian Networks](#)
- [Bayes and the Law](#)
- [Pi Football \(Using Bayesian nets to predict football results\)](#)
- [Probability: Fallacies, Myths and Puzzles](#)
- [Risk Assessment and Decision Analysis at Queen Mary](#)

## Blog Archive

- ▼ 2021 (14)
  - ▼ June (1)
    - [NFL Covid-19 protocols: a glimpse into the future ..](#)
  - May (1)
  - April (4)
  - March (2)
  - February (5)
  - January (1)
- 2020 (39)

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