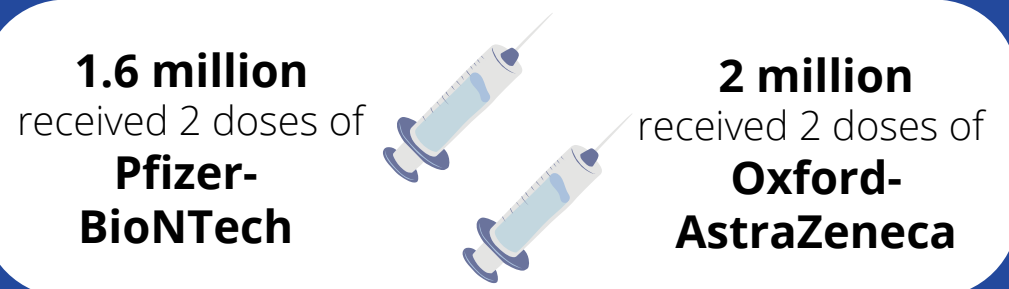
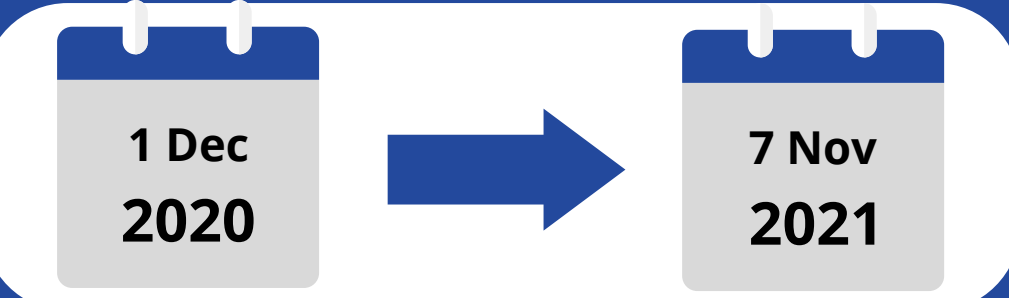


# Do second dose COVID-19 vaccines lead to conditions related to bleeding and blood clotting?

We analysed data from **3.6 million people** living in Scotland



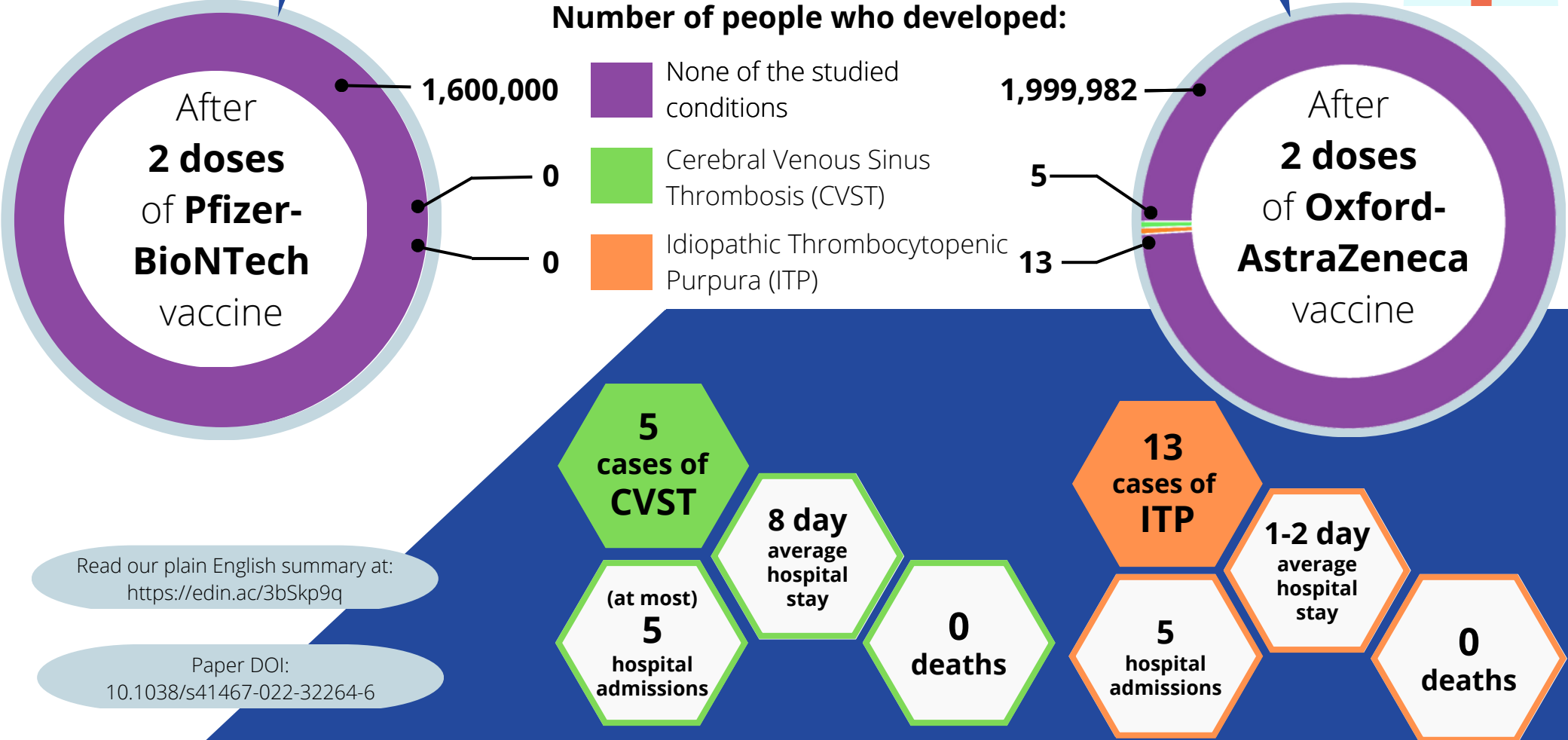
**Data examined:**  
Vaccination status  
RT-PCR COVID-19 tests  
Clinical records (e.g. consultations)  
GP data and death records

Looked into **8** bleeding or blood clotting conditions

**Pfizer-BioNTech** vaccine was not associated with an increased risk for any studied condition

**Oxford-AstraZeneca** vaccine was associated with a *borderline*\* increased risk of ITP and CVST only

\*borderline = increased risk found, but with **poor precision** due to **very low numbers**



Read our plain English summary at: <https://edin.ac/3bSkp9q>

Paper DOI: 10.1038/s41467-022-32264-6

## Conclusion

Although there was a borderline increased risk for ITP and CVST post-Oxford-AstraZeneca, these are extremely rare. **Study provides further reassurance about the safety of common COVID-19 vaccines.**