

COVID-19 control measures caused an unprecedented global drop in influenza cases



decrease in influenza cases in the **northern hemisphere** (Feb 2020 – May 2020)¹



influenza positive cases per week in the **southern hemisphere** (May 2020 – July 2021)¹

The COVID-19 pandemic has also led to a reduction in influenza virus diversity

Influenza virus clades that were not circulating in 2021:



A(H3N2) subclades (April 2020 – mid-2021)¹



B/Victoria clades (April 2020 – mid-2021)¹

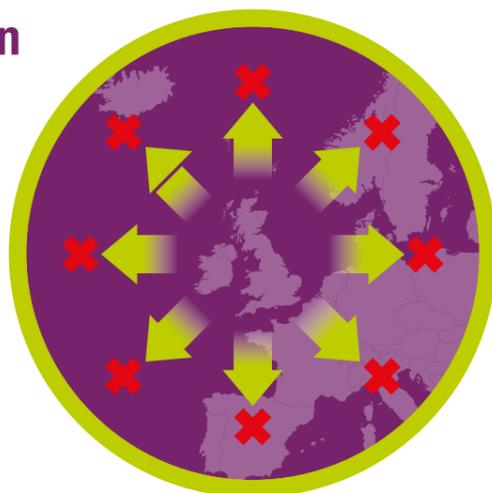


(March 2020 – Feb 2022)
Potential elimination?¹

Impact of potential B/Yamagata elimination:¹

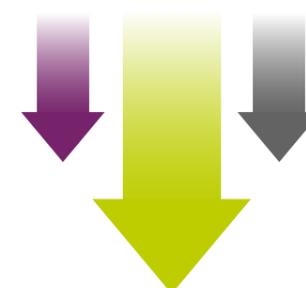
- increased susceptibility to influenza B viruses
- faster B/Victoria antigenic evolution
- possible future re-emergence

Global dissemination of influenza viruses was prevented during the pandemic¹



Once influenza begins to circulate again:¹

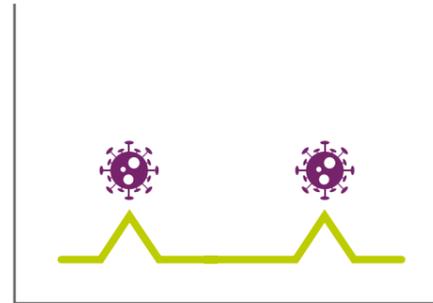
Divergent influenza lineages + waning immunity may lead to more severe influenza seasons



A small study from the Netherlands (n=165) suggests that antibody waning has been negligible so that future influenza epidemics will be similar to those before COVID-19:³



Antibodies



Global influenza activity rose steeply in February and March of 2022,⁴ which may alter the course of influenza activity described by Dhanasekaran V, *et al.* and lead to an increase in genetic diversity⁵



"This further highlights the need for ongoing vigilance around influenza, as well as SARS-CoV-2" GII