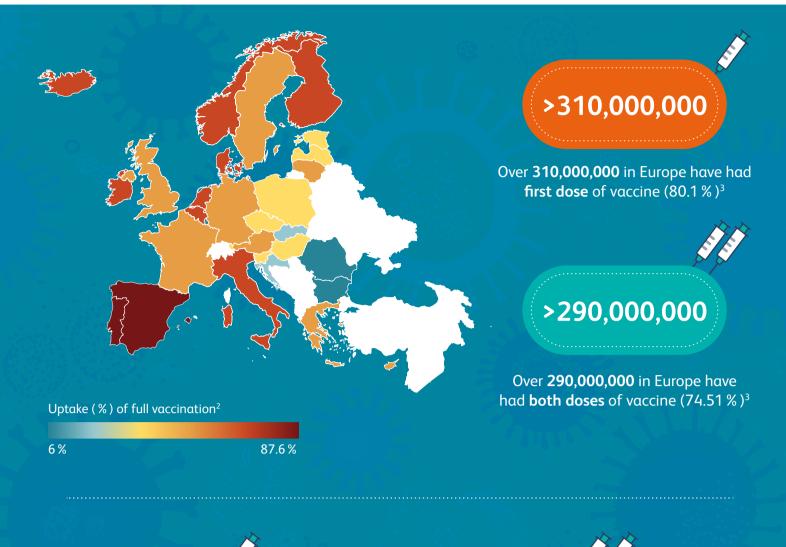


COVID-19 or FLU?

COVID-19 and Flu infections share similar symptoms

Symptoms vary in both COVID-19 and Flu, and range from no symptoms (asymptomatic) to severe symptoms. Both COVID-19 and Flu share the following symptoms:1



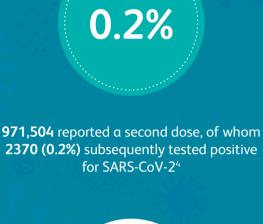


There is still risk of COVID-19 infection post vaccination

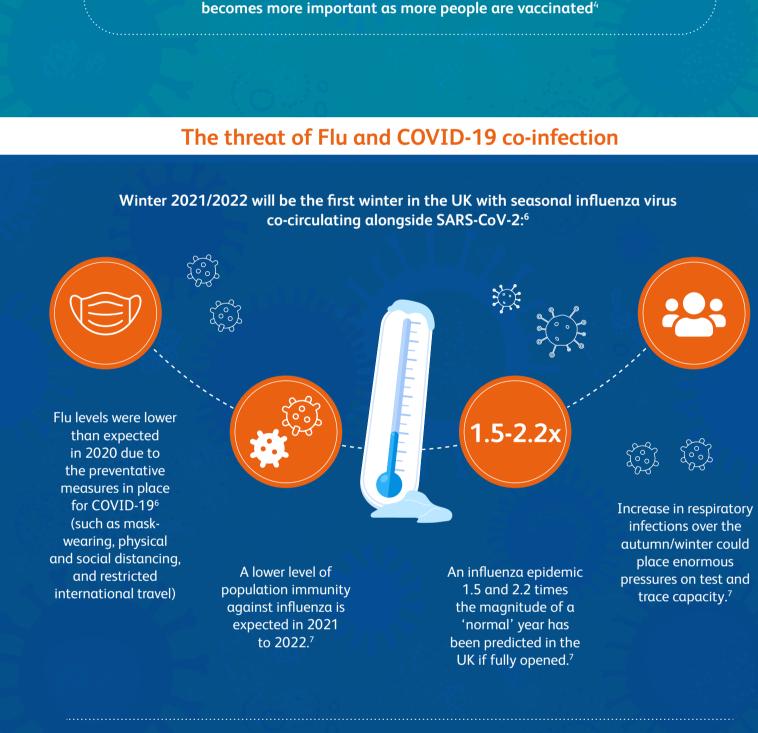




Identifying and protecting people at increased risk of post-vaccination infection

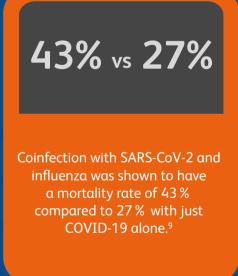






study in Wuhan reported and Flu patients suffered a SARS-CoV-2 and influenza respiratory deterioration.8 coinfection rate of 53.7 %.8

Some studies indicate unpredictable clinical outcomes and pose great concerns when facing the threat of both viruses:



95.2% - 98.9%

Viral nucleic acid detection by RT-PCR

remains the gold standard due to its

high sensitivity and specificity

(95.2% and 98.9% respectively)11,12

It is possible for patients to be coinfected

with both influenza and SARS-CoV-213

One study reported 75 %

of co-infected COVID-19



57.3%

A single-centre retrospective



Multiplex assays provide simultaneous detection of

multiple respiratory viruses from a clinical sample in

a short time using real-time RT-PCR12

Combination tests for SARS-CoV-2 and influenza A + B are available

8. Bai L, Zhao Y, Dong J, et al. Coinfection with influenza A virus

enhances SARS-CoV-2 infectivity. Cell Research 2021;31:395-403.

9. Stowe J, Tessier E, Zhao H, et al. Interactions between SARS-CoV-2 and influenza, and the impact of coinfection on disease severity:

a test-negative design. International Journal of Epidemiology

Available at: http://www.nature.com/articles/s41422-021-00473-1.

References

ECDC and CDC has encouraged labs to switch to tests that can detect influenza and SARS-CoV-2 at the same time order to save both time and resources^{14,15}

Accessed October 2021

1. CDC. Similarities and Differences between Flu and COVID-19. Centers Dis Control Prev 2021. Available at: https://www.cdc.gov/ flu/symptoms/flu-vs-covid19.htm. Accessed September 2021. 2. Hirsch C, Coi G, Guàrdia AB. Coronavirus vaccination coverage in

eu/article/coronavirus-vaccination-europe-live-data-tracker-

- coverage/. Accessed November 2021. 3. ECDC. COVID-19 Vaccine Tracker. European Centre for Disease
- Prevention and Control 2021. Available at: https://vaccinetracker. ecdc.europa.eu/public/extensions/COVID-19/vaccine-tracker.html. Accessed November 10 2021. 4. Antonelli M, Penfold RS, Merino J, et al. Risk factors and disease
- the COVID Symptom Study app: a prospective, community-based, nested, case-control study. The Lancet Infectious Diseases 2021:1-13. Available at: https://linkinghub.elsevier.com/retrieve/pii/

profile of post-vaccination SARS-CoV-2 infection in UK users of

- \$1473309921004606. 5. Graham MS, Sudre CH, May A, et al. Changes in symptomatology, reinfection, and transmissibility associated with the SARS-CoV-2
- variant B.1.1.7: an ecological study. The Lancet Public Health 2021;6:e335-e345. Available at: https://linkinghub.elsevier.com/ retrieve/pii/S2468266721000554. 6. PHE. National flu immunisation programme 2021 to 2022 letter.
- Public Health England 2021. Available at: https://www.gov.uk/ government/publications/national-flu-immunisation-programmeplan/national-flu-immunisation-programme-2021-to-2022-letter.

7. The Academy of Medical Sciences. COVID-19: Preparing for

Date of preparation: December 2023 | Job code: BD-110864

- 2021;50:1124-1133. Available at: https://academic.oup.com/ije/ article/50/4/1124/6263422. 10. Kevadiya BD, Machhi J, Herskovitz J, et al. Diagnostics for SARS-CoV-2 infections. *Nature Materials* 2021;20:593-605. Available at: http://www.nature.com/articles/s41563-020-00906-z. 11. Dinnes J, Deeks JJ, Adriano A, et al. Rapid, point-of-care antigen and molecular-based tests for diagnosis of SARS-CoV-2 infection.
 - Cochrane Database of Systematic Reviews 2020. Available at: https://doi.wiley.com/10.1002/14651858.CD013705.
- 12. Zhang N, Wang L, Deng X, et al. Recent advances in the detection of respiratory virus infection in humans. Journal
- of Medical Virology 2020;92:408-417. Available at: https://onlinelibrary.wiley.com/doi/10.1002/jmv.25674. 13. Ozaras R, Cirpin R, Duran A, et al. Influenza and COVID-19
- coinfection: Report of six cases and review of the literature. Journal of Medical Virology 2020;92:2657-2665. Available at: https://onlinelibrary.wiley.com/doi/10.1002/jmv.26125. 14. ECDC. Testing strategies for SARS-CoV-2. European Centre for
- www.ecdc.europa.eu/en/covid-19/surveillance/testing-strategies. Accessed October 2021 15. Fraser BT, Joffe-block J. CDC encourages use of new tests that

Disease Prevention and Control. 2021. Available at: https://

- detect both COVID-19 and the flu. AP News. 2021. Available at: https://apnews.com/article/fact-checking-436833075130. Accessed November 2021.
- download/4747802. Accessed November 2021. BD and the BD Logo are trademarks of Becton, Dickinson and Company. © 2023 BD. All rights reserved.