

# COVID-19 vaccine hesitancy could lead to thousands of extra deaths

March 25 2021, by Stephen Johns, Dr Sabine L. Van Elsland

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Hesitancy around COVID-19 vaccines could lead to thousands of extra deaths over a two-year period, Imperial epidemiologists show.

High numbers of people refusing or delaying a [vaccine](#) could increase the mortality rate by up to eight times compared with ideal vaccination uptake.

The team estimate that this hesitancy would lead to an extra 236 deaths per million population over a two year period for a vaccine with high efficacy.

Vaccine hesitancy has the potential to threaten the successful roll-out of SARS-CoV-2 vaccines globally.

The findings are published in a new online report by the Imperial College COVID-19 Response Team.

This latest report evaluates the potential impact of vaccine hesitancy on the control of the pandemic and the relaxation of non-pharmaceutical interventions (NPIs).

The analysis combines an epidemiological model of SARS-CoV-2 transmission with data on vaccine hesitancy from population surveys.

The research finds that the mortality over a two-year period could be up to eight times higher in countries with high vaccine hesitancy compared to an ideal vaccination uptake if NPIs are relaxed.

## **Vaccine hesitancy could prolong lockdown measures**

In addition, the authors say that high vaccine hesitancy could prolong the need for NPIs to remain in place.

The team emphasizes that addressing vaccine hesitancy with behavioral interventions is an important priority in the control of the COVID-19 pandemic.

Daniela Olivera Mesa, said: "Getting vaccinated is an individual choice, however, this choice has social consequences. Our work demonstrated that vaccine hesitancy can have a substantial health impact that affects both the vaccinated and unvaccinated populations. Building trust in vaccines is an important public health priority to control COVID-19."

Professor Azra Ghani, said: "Our work demonstrates the importance of achieving high levels of vaccine coverage if we are to return to a normal way of life. Vaccine hesitancy has declined in the UK in recent months but uptake remains unequal. It is important to understand the reasons behind [vaccine hesitancy](#) so that those that remain uncertain about getting vaccinated can have their concerns addressed."

Dr. Peter Winskill, said: "The global effort to develop effective and safe vaccines against SARS-CoV-2 has been unprecedented. To ensure that the full benefits of these vaccines are realized, high levels of vaccine coverage must be achieved. Vaccine hesitancy can jeopardize this goal, leading to adverse public health outcomes or the need to prolong non-pharmaceutical interventions."

Provided by Imperial College London

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