



# UNCOVER

Applied Evidence Synthesis

## Rapid Reviews of select parameters and modes of transmission of seasonal and pandemic influenza, and of respiratory syncytial virus (RSV)

UNCOVER Applied Evidence Synthesis

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**Combined Cover Sheet**

[full authorship details and declarations given with each rapid review]



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## Overview

A rapid review of **the parameters (attack rates, generation intervals, latent period, incubation period, duration of infectiousness, reproduction number) and modes of transmission of seasonal and pandemic influenza** was commissioned from UNCOVER Applied Evidence Synthesis, in order to update the evidence base supporting the Planning Assumptions in the World Health Organization's (2017) Pandemic Influenza Risk Management guidelines, to help inform ongoing planning for seasonal and pandemic influenza.

A second rapid review, of **the parameters (attack rates, generation intervals, latent period, incubation period, duration of infectiousness, reproduction number) and modes of transmission of respiratory syncytial virus (RSV)**, was commissioned in order to provide a similar evidence base on key transmission parameters for respiratory syncytial virus (RSV). In defining parameters of interest, we were guided by those used as planning assumptions for influenza in the World Health Organization's (2017) Pandemic Influenza Risk Management guidelines, with a view to generating evidence that would allow a comparable set of assumptions to be developed for RSV.

A consistent approach to methodology, analysis and structure of the written report was used for both rapid reviews, as they sought to address the same fundamental question for the same purpose. The two reviews are published on the UNCOVER website under the following titles:

<b>Rapid Review title</b>	What are the parameters (attack rates, generation intervals, latent period, incubation period, duration of infectiousness, reproduction number) and modes of transmission of seasonal and pandemic influenza?
<b>Authors</b>	Emilie McSwiggan, Nadege Atkins, Urmila Bhattacharyya, Charlotte Devine, Marshall Dozier, Bohee Lee, Meagan Rust, Agnieszka Zawiejska, Durga Kulkarni, Madhurima Nundy, Evropi Theodoratou*, Ruth McQuillan*, on behalf of UNCOVER Applied Evidence Synthesis
<b>Date and version</b>	30 July 2023 – version 2

<b>Rapid Review title</b>	What are the parameters (attack rates, generation intervals, latent period, incubation period, duration of infectiousness, reproduction number) and modes of transmission of RSV [respiratory syncytial virus]?
<b>Authors</b>	Emilie McSwiggan, Marshall Dozier, Alice Gornall-Wick, Toneka Hayward, Purna Krishan, Durga Kulkarni, Madhurima Nundy, Ruth McQuillan*, Evropi Theodoratou*, on behalf of UNCOVER Applied Evidence Synthesis
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