## Figure 3—source data 2. Mechanisms examined in the simulations.

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| **Mechanism** | **Definition** | **Parameters** | **Note** |
| **Infection risk determinant** | | | |
| Immunity-dependent protection | Lower risk of infection with higher HI titer to a circulating A(H3N2) strain. | , , | Equation 10 & 11 |
| Population-level circulation | Constant, random, or periodic fluctuation in population-level circulation of the viruses. |  | Equation 11 |
| **Antibody responses** |  |  |  |
| Broad cross-reaction | Interaction of antibody responses to strains that were isolated distantly. | , , , , | Equation 4 |
| Narrow cross-reaction | Interaction of antibody responses to strains that are antigenically similar. | , , , , | Equation 5 |