|  |  |  |  |
| --- | --- | --- | --- |
| Parameter | Description | Value | Source |
| β1 | Transmission Rate RSV | R01δ1/N  R0 = 3.0 | https://www.publichealthontario.ca/-/media/documents/ncov/ipac/2020/09/key-features-influenza-covid-19-respiratory-viruses.pdf?sc\_lang=en |
| β2 | Transmission Rate COVID-19 | R02δ2/N  R0 = 2.7 | https://www.publichealthontario.ca/-/media/documents/ncov/ipac/2020/09/key-features-influenza-covid-19-respiratory-viruses.pdf?sc\_lang=en |
| κ1 | Incubation Rate RSV | 1/5 days-1 | https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6089794/#:~:text=Most%20patients%20recover%20in%201,for%2010%20years%20or%20longer. |
| κ2 | Incubation Rate COVID-19 | 1/6.57-1 | https://www.contagionlive.com/view/the-shrinking-incubation-period-of-covid-19 |
| δ1 | Recovery Rate RSV | 1/14 days-1 | https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6089794/#:~:text=Most%20patients%20recover%20in%201,for%2010%20years%20or%20longer. |
| δ2 | Recovery Rate COVID-19 | 1/14 days-1 |  |
| η1 | Rate of becoming susceptible to COVID-19 after recovery from RSV |  | Assumption |
| η2 | Rate of becoming susceptible to RSV after recovery from COVID-19 |  | Assumption |