**S2 Table**: **COVID-19 model parameters and values.** \*We used population size for Gauteng, Western Cape, KwaZulu-Natal and Free State provinces in estimating national level estimates as these were the only provinces with COVID-19 cases in the early phases of the epidemic. Population estimates were based on the 2019 census [1].

|  |  |  |  |
| --- | --- | --- | --- |
| **Parameter description** | **Parameter symbol** | **Range/value** | **Reference** |
| \*Population Size | N | 36 196 938 | [1] |
| Effective contact rate |  | 0-2 day-1 | assumed |
| Incubation period |  | 3-7 days | [2] |
| Infectious period |  | 2-5 days | [3, 4] |
| Percentage reduction in effective contacts |  | 0-100% | assumed |

*S2 Table References*

|  |  |
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