

## **Press Release by the INDSCI-SIM team of ISRC**

**29 July, 2020**

### **Analysis of Delhi results**

The ISRC group working on the INDSCI-SIM model has analysed the COVID-19 mortality data for the region of NCT-Delhi, reported for the period from the end of April to the current date. The model incorporates the effects of both lockdown measures and the quarantining and testing regime imposed during that period.

- The model calculations estimate that between 16%-40% of the total population of 19.8 million have been infected by this time (July 25). This range comes from considering infection fatality rate (IFR) values between 0.05%-0.22%, with the smaller IFR values giving the larger infected fractions. Further, the true number of infected is undetected by a factor of more than 20.
- These findings are consistent with relatively smaller values of IFR  $\sim 0.1\%$ . In comparison, a recent meta-analysis of worldwide data estimates IFR  $\sim 0.68\%$ . The IFR numbers the model favours are also consistent with estimates from the recent Mumbai serosurvey. The lower median age of Indian population, incorporated into the calculations, may not fully account for this discrepancy. More extensive countrywide serological surveys and robust reporting of fatalities are needed for reliable estimates.
- The peak in daily new cases is estimated to have occurred between mid-June to mid-July. A peak in hospitalization numbers is estimated to have occurred during July.
- Our calculations suggest that any increase in infectivity rate, due to relaxation of ongoing non-pharmaceutical interventions, would likely lead to a resurgence of cases.

<https://indscicov.in/indscisim/> [see version 1.4]

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