

1 **Supplementary material 1**

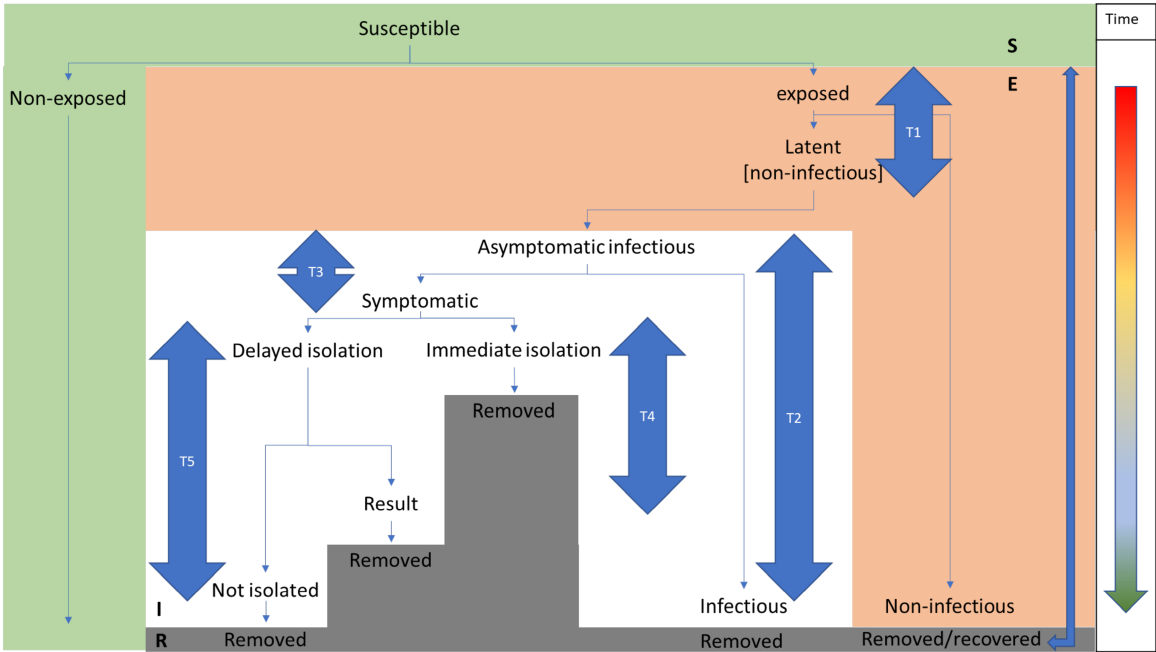


Figure S1: Conceptual model of the key temporal parameters impacting COVID-19 infection progression over time. T1: Latent period; T2: Asymptomatic infectious period; T3: Pre-symptomatic infectious period; T4: Symptom onset to diagnosis [self-isolation] or hospitalisation; T5: Symptom onset to removed [death or recovery]

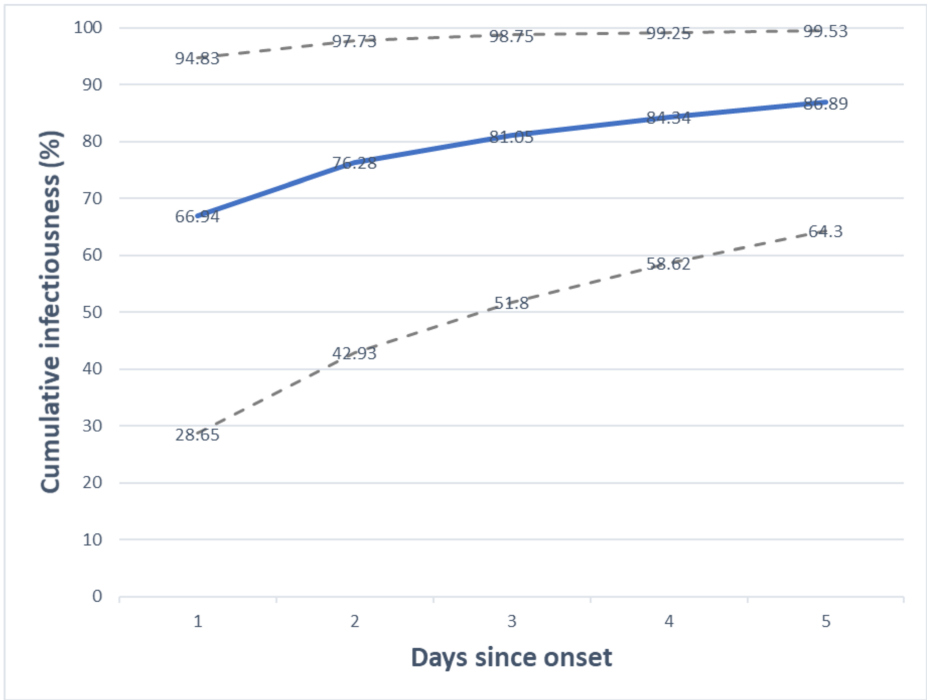
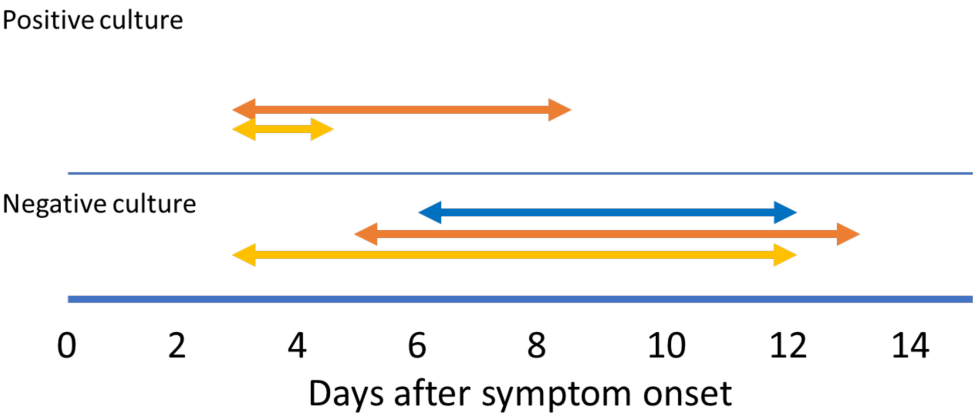


Figure S2: Cumulative infectiousness (% of total infectiousness) based on infector-infectee pair data in the paper by Cheng et al. 2020. The accumulation curve is based on a gamma density function, coupled with a probability function to capture the maximal probability if exposed to a primary case.

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17 **Figure S3:** Timeline for positive culture results of SARS-COV2 from throat, sputum and stool
18 samples; Yellow line = Throat swabs; Orange line = Sputum samples; Blue line = Stool samples;
19 Adapted from Wölfel et al.[50].

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21 **Reference:**

22 Cheng, H.Y., Jian, S.W., Liu, D.P., Ng, T.C., Huang, W.T. and Lin, H.H., 2020. High transmissibility of
23 COVID-19 near symptom onset. *medRxiv*.

24 Wölfel R, Corman VM, Guggemos W, *et al*. Virological assessment of hospitalized
25 patients with COVID-2019. *Nature* 2020;:1–10.