

Legend: DCM scenario modelling suggests that the NHS will be overwhelmed on 12 January under a November style lockdown: These simulations consider three lockdowns by calibrating a social distancing threshold to produce mobility (as estimated by the Department of Transport) consistent with a **March lockdown (with school closures)**, a **November lockdown (without school closures)** and an **intermediate lockdown** (predicted by the DCM on the basis to past responses to changes in the prevalence of infection). This model includes fluctuations in infection fatality ratios and recent increases in transmission rate. The NHS capacity is based upon ONS reports of hospital cases and an 89% capacity on 16th December. The November style lockdown is modelled with a New Years relaxation of social distancing and subsequent rebounds.



