



FIGURE 4 Comparison of strategies lowering the endemic equilibrium. Chosen functions are $v : I \mapsto v_0 I / (I + 100)$, with $v_0 = 0.8$ (blue), $v_0 = 0.5$ (orange) and $v_0 = 0.3$ (purple). Parameters values are $\beta = 1.2$, $k = 0.2$, $\alpha = 0.5$ and $\gamma = 1/200$. The initial condition is $I(0) = 300$ per 100,000 individuals. (a) comparison of functions v and \hat{v} , with stable endemic equilibria (solid circles), and an unstable DFE (empty circle). (b) evolution of the number of active cases I per 100,000 individuals.