(a) Active cases

(b) Cumulative cases (including reinfections)

FIGURE 2 Evolution of the epidemic in the absence of NPI $v = 0$, for $1/\gamma = 200$ (blue), 400 (green) and compared to a model without reinfection ($\gamma = 0$, red dashed curve). (a) active cases per 100,000 (b) and cumulative cases per 100,000. The initial conditions is ($S(0) = N - 1$, $E(0) = 0$, $I(0) = 1$). Parameters values are $\beta = 1.2$, $k = 0.27$, and $\alpha = 0.67$.