(a) Functions v and $\hat{v}$ (b) Number of active cases (I)   (c) Cumulative cases

FIGURE 3 Comparison of constant control strategies: $v = 0.8$ (blue), $v = 0.5$ (orange), $v = 0.3$ (purple), $v = 0.2$ (green). Parameters values are $\beta = 1.2$, $k = 0.2$, $\alpha = 0.5$ and $\gamma = 1/200$, $N = 50{,}000{,}000$. The initial condition is I(0)=300 per 100,000. (a) comparison of functions v and $\hat{v}$, with stable (solid circles) and unstable (empty circles) equilibria. (b) evolution of the number of active cases I. An insert show the details of the region $0 < t < 50$. (c) Evolution of the number of cumulative cases.