A i.

Bifurcation over ρ

Stable periodic
Stable fixed point
Unstable fixed point

Prevalence

0.04
0.02
0.00

0.000 0.025 0.050 0.075 0.100

A iii.

Periodic solution frequency

Frequency (years^{-1})

4
3
2
1
0

0.000 0.025 0.050 0.075 0.100

A ii.

Minimum infection prevalence across solution

Prevalence

10^{-2}
10^{-5}
10^{-8}

0.000 0.025 0.050 0.075 0.100

Mean antibody decay rate r

A iv.

Yearly infection attack rate at solution

Attack rate

2.0
1.5
1.0
0.5
0.0

0.000 0.025 0.050 0.075 0.100

Mean antibody decay rate r

B

r = 0.025
r = 0.05
r = 0.075

Prevalence

0.05
0.00

0 1,000 2,000 3,000

Time (days)