A i.

Bifurcation over ρ

Prevalence

0.06
0.04
0.02
0.00

0.000 0.002 0.004 0.006

Stable periodic
Stable fixed point
Unstable fixed point

A iii.

Periodic solution frequency

Frequency (years^{-1})

4
3
2
1
0

0.000 0.002 0.004 0.006

A ii.

Minimum infection prevalence across solution

Prevalence

10^{-1}
10^{-4}
10^{-7}
10^{-10}

0.000 0.002 0.004 0.006

Waning constant ρ

A iv.

Yearly infection attack rate at solution

Attack rate

2.5
2.0
1.5
1.0
0.5
0.0

0.000 0.002 0.004 0.006

Waning constant ρ

B

ρ = 0.001
ρ = 0.003
ρ = 0.005

Prevalence

0.05
0.00

0 1,000 2,000 3,000

Time (days)