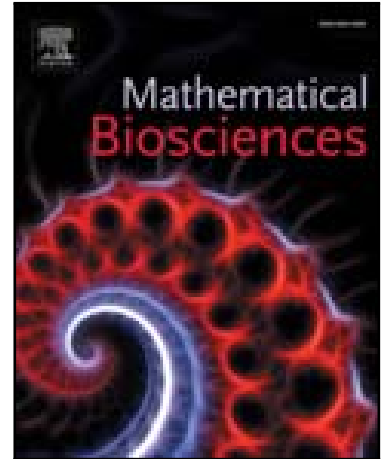


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The distribution of the time taken for an epidemic to spread between two communities

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Highlights

- We use mathematical models to assess interventions to control epidemic spread between communities.
- We evaluate the spreading probability and the distribution of the time taken.
- Approximations are developed to efficiently evaluate these quantities.
- Controlling infection at its source prevents/delays epidemic spread most effectively.
- For certain parameter regions, model choice affects assessment of interventions.

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