

Diffusion Of Vaccine Scares and its Consequences

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Problem: Almost extinguished diseases (e.g measles) may return because of today's vaccination refusal trend

Questions:

1. What is a safe threshold on the rate of non vaccinated individuals for a given disease?
2. How much effort should be invested in vaccination campaigns given the extent of vaccine scares?

Models: Epidemic modeling, evolutionary game theory

Methods: Partial Differential Equations (SIR), Agent-based modeling

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