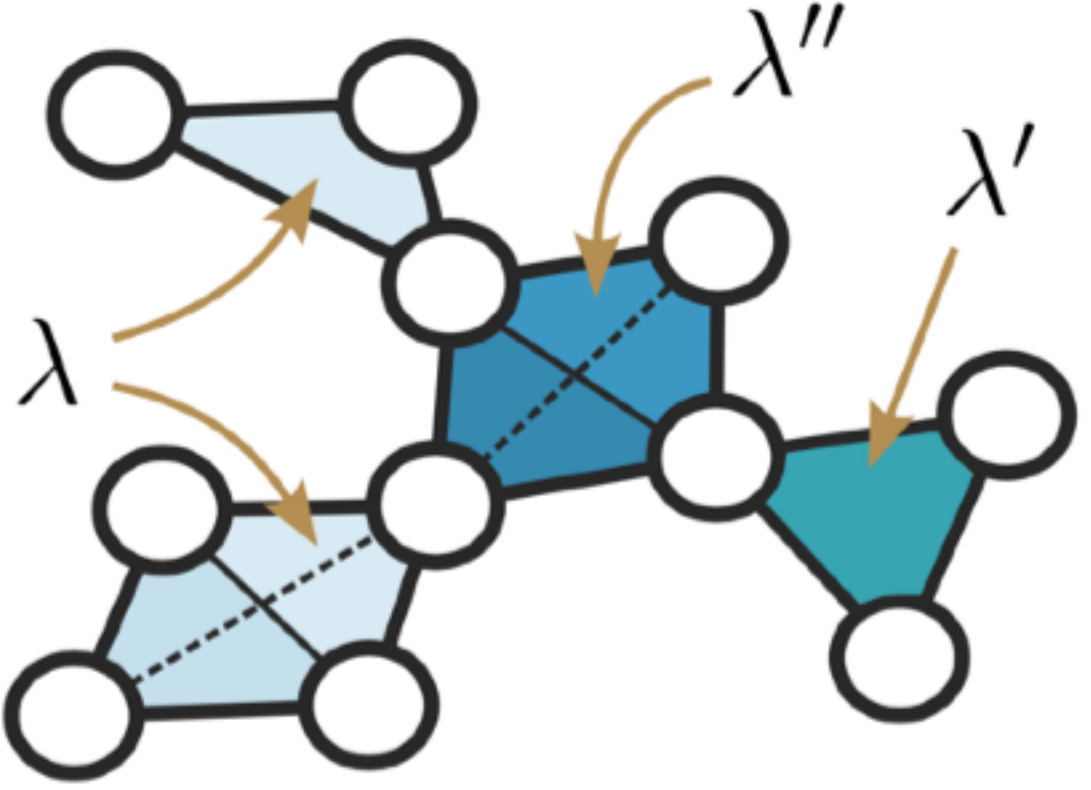
14

A Weighted hypergraph



$$\lambda'' > \lambda' > \lambda$$

Heterogeneous transmission settings

JAMA Insights

Indoor Air Changes and Potential Implications for SARS-CoV-2 Transmission

Joseph G. Allen, DSc, MPH; Andrew M. Ibrahim, MD, MSc

Reviews in Medical Virology

REVIEW | Open Access

Behaviour of aerosols and their role in the transmission of SARS-CoV-2; a scoping review

José Miguel Robles-Romero, Gloria Conde-Guillén, Juan Carlos Safont-Montes, Francisca María García-Padilla, Macarena Romero-Martín

Journal of Infection (2008) 57, 361–373

ELSEVIER

REVIEW

Inactivation of influenza A viruses in the environment and modes of transmission: A critical review

Thomas P. Weber [a,*], Nikolaos I. Stilianakis [a,b]

Behavioral Ecology (2020), 31(2), 651–660. doi:10.1093/beheco/araa002

Original Article

Sex, synchrony, and skin contact: integrating multiple behaviors to assess pathogen transmission risk

Stephan T. Leu*, Pratha Sah, Ewa Krzyszczyk, Ann-Marie Jacoby, Janet Mann, and Shweta Bansal

Notation: $\lambda = \beta$.

We include context by allowing each group to have an individual β drawn from a density $f(\beta|n)$.

The context of contacts matters for transmission

- COVID-19
- Influenza A
- STIs
- …

What are the possible effects of ignoring context?

Heterogeneous transmission settings

The context of contacts matters for transmission

- ▷ COVID-19
- ▷ Influenza A
- ▷ STIs
- ▷ ...

What are the possible effects of ignoring context?


JAMA Insights

Indoor Air Changes and Potential Implications for SARS-CoV-2 Transmission

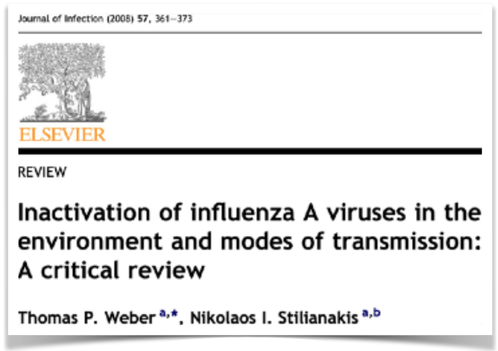
Joseph G. Allen, DSc, MPH; Andrew M. Ibrahim, MD, MSc


Reviews in Medical Virology

REVIEW | Open Access

Behaviour of aerosols and their role in the transmission of SARS-CoV-2; a scoping review

José Miguel Robles-Romero, Gloria Conde-Guillén, Juan Carlos Safont-Montes, Francisca María García-Padilla, Macarena Romero-Martín


Journal of Infection (2008) 57, 361–373

ELSEVIER

REVIEW

Inactivation of influenza A viruses in the environment and modes of transmission: A critical review

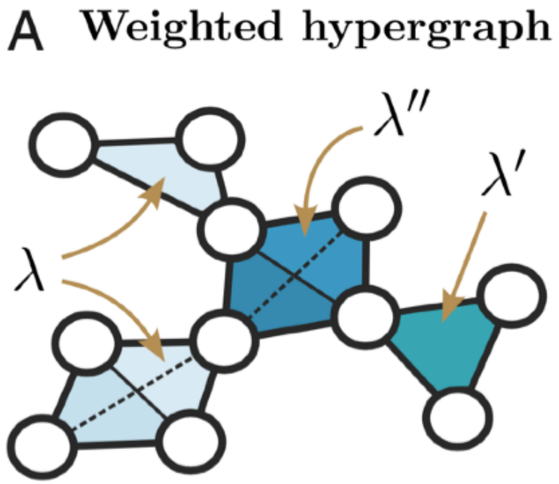
Thomas P. Weber [a,*], Nikolaos I. Stilianakis [a,b]


Original Article

Sex, synchrony, and skin contact: integrating multiple behaviors to assess pathogen transmission risk

Stephan T. Leu, Pratha Sah, Ewa Krzyszczyk, Ann-Marie Jacoby, Janet Mann, and Shweta Bansal

We include context by allowing each group to have an individual β drawn from a density $f(\beta|n)$.



$$\lambda'' > \lambda' > \lambda$$

Notation: $\lambda = \beta$.

Heterogeneous transmission settings

Detailled description of the dynamics at the groups level with $\Theta_{n,i,\beta} = i\beta$ ("simple contagion")

$$\frac{\mathrm{d}G^{\beta}_{n,i}}{\mathrm{d}t} = \mu(i+1)G^{\beta}_{n,i+1} - \mu i G^{\beta}_{n,i} + (n-i+1)[(i-1)\beta + \rho]G^{\beta}_{n,i-1} - (n-i)[i\beta + \rho]G^{\beta}_{n,i}$$