

Network epidemiology: The preschool case

Preschoolers are sick *all the time**!



*38% of preschoolers have symptoms at least half the time, those who don't attend preschool much less (Hedin et al. Acta Paediatrica, 2007)

During the COVID pandemic we learned to limit our social contacts to a small bubble



Yet preschool groups are quite big! How does that impact infection spread?

We will **model** infection spread in preschools and analyze the role of the kids' contact networks (e.g. group size!)



For example: Can expected number of sick days be reduced by making smaller groups?

Highly interdisciplinary project: You'll use network dynamics / modeling / (hobby) epidemiology / programming / literature study

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