Q1: What is the relationship between the number of sex acts and the number of heterosexual partners?

A1: Total number of sex acts increases only marginally with number of sex partners.

Q2: What are the implications of taking realistic numbers of sex acts into account for modeling chlamydia transmission and the impact of control interventions?

A2: The basic reproduction number $R_0$ saturates for individuals with a high number of sex partners.

All chlamydia infected individuals with one or more new heterosexual partners per year contribute to ongoing transmission ($R_0 > 1$).

Details of the data analysis and the mathematical model are available as a PeerJ Preprint: https://peerj.com/preprints/940

Data: British National Survey of Sexual Attitudes and Lifestyles (Natsal-2)

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Christian L. Althaus, Ph.D.
Institute of Social and Preventive Medicine (ISPM)
University of Bern
Frithurststrasse 11
3012 Bern
Switzerland

F +41 31 631 56 40
E christian.althaus@alumni.ethz.ch
W www.immuno-epidemiology.ch