HIV and Sexual Mixing among Greek Men Who Have Sex With Men
Benjamin Bowman, BA, John Schneider, MD, MPH, Dimitrios Paraskevis, PhD, Angelos Hatzakis, MD, Sophocles Chanos, MS, Mina Psychogiou, MD, Martha Papadopoulou, BS, Samuel Friedman, PhD, Aditya Khanna, PhD
Infectious Disease Section, Department of Medicine, University of Chicago

Background

- Though many HIV epidemics globally have declined or plateaued, outbreaks can occur in response to social or political shock.
- In 2011, austerity measures in Greece lead to an increase in homelessness and an HIV epidemic among people who inject drugs (PWID). The appearance of HIV strains unique to the PWID population in the men who have sex with men (MSM) population indicates the epidemic continues to spread.
- Evidence confirms the social determinants of HIV transmission and the utility of targeting larger social units.
- A public health strategy that targets networks that are major drivers of HIV epidemics would be the optimum prevention model in a post-austerity environment.
- MSM populations continue to be a major driver of HIV epidemics internationally. Evidence shows MSM network bridging position is associated with HIV status.

Specific Aims

- Characterization of Greek MSM, their sexual behaviors, and MSM sexual network mixing patterns.
- Identification of MSM profiles for targeted prophylaxis, a cost-effective HIV/AIDS prevention strategy

Methods

Eligibility
• (1) identified as male sex
• (2) resident of Athens
• (3) 18 years of age and older
• (4) sexual intercourse with a man in past year
• (5) spoke Greek or English
• (6) planned to remain in Athens for 12 months
• (7) informed consent

Recruitment (2 sites)
• Seeds
• Recruits (Respondent-Driven Sampling)

2-hour in-person interview
• HIV testing/counseling
• Sociodemographic information
• Behavioral information
• Sex network assessment

Analysis

Disassortative Mixing

Research has demonstrated that higher levels of disassortative mixing (high-risk groups mixing with low-risk groups) are a major contributor to higher STI rates.

Results

• Mixing of sexual network members with regards to serostatus displayed random mixing (r = 0.12, σ = 0.09-0.15).

Mixing within a Sexual Network*

Assortativity Coefficients

Limitations

- Possibility of residual influences on the MSM population by the PWID epidemic and economic crisis cannot be ignored.
- Influx of people into Greece has under-investigated ramifications on the epidemiological landscape.
- Egocentric network analysis data were self-reported and thus susceptible to projection bias.

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References

1 Schneider JA, Cornwell B, Ostrow D, et al. Network mixing and network influences most linked to HIV infection and risk behavior in the MSM population by the PWID epidemic and economic crisis cannot be ignored.


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