

Prevalence and Correlates of Pharyngeal Gonorrhea Among Young People Attending Public STD Clinics

Marjan Javanbakht PhD1, Sarah Guerry, MD2, Pamina Gorbach DrPH1, Ali Stirland MBChB2, Michael Chien, PhD (c) 2, Peter Kerndt MD2 ¹UCLA School of Public Health, Department of Epidemiology, Los Angeles, CA ²Los Angeles County Department of Public Health, STD Program, Los Angeles, CA

Contact Information: Marian Javanbakht, PhD Box 957353 - Dept. of Epidemiology UCLA School of Public Health Los Angeles, CA 90095-7353 310-794-0619 x245 iavan@ucla.edu

Public Health BACKGROUND

- · Highest reported rates of gonorrhea among those 15-24 vears of age
- Contribution of oral sex to gonorrhea transmission among young people may be higher than expected given:
 - •Relatively high prevalence of oral sex among this population
 - •Low prevalence of condom use for oral sex
 - •Difficulty in eradicating pharyngeal gonorrhea with treatments used for urogenital and rectal gonorrhea

OBJECTIVE

· To identify factors associated with pharyngeal gonorrhea among young people

METHODS

- Cross-sectional study of clients attending public STD clinics in Los Angeles County
- Those included in this analysis were:
 - ages 15 24 years
 - reported oral sex in past 90 days
- tested for pharvngeal gonorrhea Data collected from May 2006 – December 2007 using
- electronic records including:
 - Demographics
 - Sexual practice and risk behavior data
 - Laboratory testing data
- Factors associated with pharyngeal gonorrhea assessed with hierarchical regression models using generalized estimating equations

- A total of 3,992 clients were eligible and included in this analysis
- The median age was 21 years and more than half (53.4%) were male • Among men 23% (n=482) reported sex with men
- The majority identified as African American (47.7%) or Hispanic (36.7%)

Figure 1. Prevalence of pharyngeal gonorrhea among women, by risk behaviors/STIs

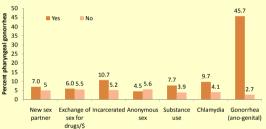
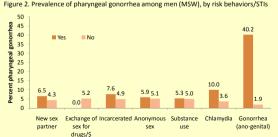


Figure 2. Prevalence of pharyngeal gonorrhea among men (MSW), by risk behaviors/STIs



RESULTS

- •The overall prevalence of pharyngeal gonorrhea was 5.9% (n=233) and was higher among MSM (10.4%) as compared to MSW (5.1%) and women (5.5%)
- •Among both men and women, the highest prevalence of pharyngeal gonorrhea was among those who also had urogenital or rectal gonorrhea (Figures 1-3)
- After adjusting age, race/ethnicity, and reason for visit (i.e., STD contact), concurrent infection with gonorrhea at a non-pharvngeal site was the strongest predictor of pharyngeal gonorrhea (Table 1)

| | Women | | Men (n=2,339) | | | |
|---------------|-------|---------------|---------------|---------------|-------------|--------------|
| | | | MSW (n=1,595) | | MSM (n=744) | |
| | AOR | (95% CI) | AOR | (95% CI) | AOR | (95% CI) |
| Substance use | 1.9 | (1.2 - 3.1) | | | | |
| Gonorrhea | | | | | | |
| Urogenital | 26.5 | (15.9 - 44.2) | 35.4 | (19.1 - 65.5) | 13.5 | (2.7 - 67.5) |
| Rectal | | | | | 5.4 | (2.2 - 13.5) |
| Chlamydia | | | 2.0 | (1.1 - 3.6) | | |

*models adjust for age, race/ethnicity, reason for visit

Figure 3. Prevalence of pharvngeal gonorrhea among men (MSM), by risk behaviors/STIs



CONCLUSIONS

- Prevalence of pharyngeal gonorrhea among young people was relatively high
- Prevalence of pharyngeal gonorrhea significantly higher among those with concurrent non-pharyngeal gonorrhea, even after adjusting for other factors
- These findings support the utility of pharyngeal screening among young people who report oral sex, particularly those with a concurrent infection at another anatomical site

2010 National STD Prevention Conference Atlanta, GA; March 8-11, 2010