

over half of teens 15–19 years reported having had oral sex with an opposite sex partner. Oral sex is thought by some men who have sex with men to have lower risk for HIV acquisition, and is a prevalent practice in this population. However, the risk of acquiring a given sexually transmitted infection (STI) from oral sex may depend on a number of factors, including the specific STI, particular oral sex practice, prevalence of the STI in the population, and the number of oral sex acts performed. It is difficult to quantify the risk of getting an STI from a specific type of oral sex activity, or compare risks due to specific sex acts, because most people who have oral sex also have vaginal and/or anal sex.

Methods In order to develop public health messages on oral sex and STI risk, we performed a review of the scientific literature to assess the state of current knowledge for risks of seven STIs (including HIV) and six oral sex practices: insertive and receptive fellatio, cunnilingus, and anilingus. Approximately 200 publications between 1979 and 2010 were reviewed; only 65 reported novel findings for one or more of these 42 potential associations.

Results The clearest evidence of risk was found for syphilis (all oral sex practices), chlamydia (insertive and receptive fellatio; receptive anilingus), gonorrhoea (insertive and receptive fellatio), herpes (insertive fellatio; receptive cunnilingus), and HIV (receptive fellatio). For example, for pharyngeal gonorrhoea 4 of 4 studies reported association with receptive fellatio; 1 of 1 study found none for insertive anilingus. Other STI and oral sex associations were less well-studied, or have not been documented. No reports allow direct per-contact estimates, but some facilitate comparisons with non-oral types of sexual contact. A number of studies did not specify whether ejaculation or use of barrier protection was assessed.

Conclusions All oral sex practices are associated with risk of transmission of one or more STIs; however the relations between specific oral sex practices and risk of infection are not well-characterised for several STIs. Despite this, it is important to formulate appropriate public health messages regarding oral sex and STI risk. Future studies should clearly distinguish between specific oral sex practices and consider these factors in sample size determination.

P1-S5.07

ONGOING RISK BEHAVIOURS: NEW STD DIAGNOSES IN PERSONS KNOWN TO BE HIV-INFECTED IN MIAMI-FORT LAUDERDALE (SOUTH FLORIDA), 2000–2009

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¹T A Peterman, ²T H Brewer, ¹D R Newman, ³S Shiver. ¹CDC, Atlanta, USA; ²CDC/Florida DOH, Miami, USA; ³Florida Department of Health, Tallahassee, USA

Background The diagnosis of a new bacterial STD in a person with documented HIV- infection suggests ongoing high-risk sexual behaviours. While high rates of syphilis among HIV-positive MSM have been repeatedly noted in South Florida, little attention has been given to the incidence of gonorrhoea (GC) and chlamydia (CT) among HIV-positive individuals, due to use of separate surveillance systems, differing security requirements, and limited partner services staff available to investigate GC and CT cases.

Methods We reviewed STD surveillance data from 2000 to 2009 after linking it to the HIV/AIDS surveillance data base. We analysed cases of GC and CT diagnosed >60 days after an HIV diagnosis.

Results Overall 3.7% of GC (1504 of 40214) and 1.2% of CT (1149/99265) cases were in persons known to be HIV- positive. The percentage of cases diagnosed in HIV- positive persons increased steadily over the time period; GC coinfections increased from 2.3% in 2000 to 5.0% in 2009 and CT coinfections increased from 0.8% to 1.3%. Most of the GC coinfecting cases were among males; 1144/

21360 (5.4%) of males with GC were coinfecting with HIV while 360/18854 (1.9%) of females with GC were coinfecting with HIV. For CT, 559/22735 (2.5%) of males with CT were coinfecting with HIV while 590/76530 (0.8%) of females with CT were coinfecting with HIV. Most coinfections were among HIV positive males, 73.5% of whom were men who have sex with men (MSM). Coinfections among men increased over the time period, while among women the number peaked in 2006 and has declined thereafter. HIV- positive men accounted for over 10% of GC infections among men 35–59 years of age and over 10% of CT infections among males 40–59. HIV coinfection was present for over 5% of GC infections among women 30–44 years of age and 50–54 years of age.

Conclusions While males with GC or CT who are coinfecting with HIV constitute a small fraction of the cases in South Florida, the proportion is increasing steadily. HIV+ MSM account for a high percentage of cases among males over 35 years of age. Timely, accessible linkage between HIV and STD databases is essential to direct partner services and risk reduction counselling to this high-risk population.

P1-S5.08

ATTENDANCE AT LOCAL AND NATIONAL SEX-EVENTS ASSOCIATED WITH STD DIAGNOSIS, SAN FRANCISCO, 2010

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K Bernstein, H Hjord, J Marcus, R Kohn, S Philip. *San Francisco Department of Public Health, San Francisco, USA*

Background A variety of sex-themed events draw crowds from across the USA and provide opportunities for sex partner recruitment, potentially amplifying local sexual networks and complicating disease prevention and control. We examined the frequency of attendance at such events and the association between attendance and incident STD diagnosis among patients visiting a municipal STD clinic.

Methods During 21 September 10–1 November 10, patients seeking services at San Francisco City Clinic were invited to complete a survey about their attendance at local and national events in the prior 12 months, including street fairs, gay pride events, Burning Man, leather events, and circuit parties. Survey results were linked with data from the clinic visit, including self-reported risk behaviours and STD diagnoses. Analyses were stratified by sexual orientation. Events traditionally associated with sex partner recruitment (sex events) were combined. χ^2 and Wilcoxon rank-sum statistics were used to compare patients who attended sex events with all other patients completing the survey.

Results Of the 246 completed surveys, 106 (43.1%) were among heterosexual patients and 140 (56.9%) were among men who have sex with men (MSM). Twenty per cent of heterosexual patients and 47% of MSM patients reported attending a sex event in the prior 12 months. Among heterosexual patients, those attending a sex event were of younger age (median 25 vs 29 years, $p=0.014$), reported fewer sex partners in the prior 12 months (median 1 vs 2, $p=0.021$) and were more likely to be at their first visit to the STD clinic (71.4% vs 47.1%, $p=0.045$). There was no association between STD diagnosis and event attendance among heterosexuals. Among MSM, those attending sex events reported more sex partners in the prior 12 months (median 10 vs 5, $p=0.019$), were more likely to be residents of San Francisco (83.3% vs 66.2%, $p=0.021$), and were more likely to be diagnosed with chlamydia (15.2% vs 4.1%, $p=0.024$) or any STD (29.0% vs 14.9%, $p=0.045$) at that visit.

Conclusions Attendance at sex events was common among patients at an urban STD clinic. Among MSM, attendance was associated with more sex partners and STD diagnosis. The ability of local