30 days were reported by 15% and 7% of clients, respectively. Reported history of an STI was also common at 29%. A previous HIV test was reported by 74%; active/potential bridgers were significantly less likely than unlikely bridgers to have ever been tested for HIV.

Conclusions Results of this pilot study demonstrate the feasibility of successfully recruiting clients of FSW in a setting of epidemic growth and high HIV prevalence among FSW. A majority of clients of FSW also have non-FSW sex partners, and these partnerships are often concurrent. Condom use is sub-optimal with both FSW and non-FSW partners, and drug and alcohol use were common. These risk behaviours signal potential for HIV/STI transmission among male clients of FSW in St. Petersburg Russia, and indicate a pressing need to better understand the context and nature of risk for this potentially important bridging population.

P1-S2.06 HIV, SEXUALLY TRANSMITTED INFECTIONS, AND RISK BEHAVIOURS AMONG CLIENTS OF SEX WORKERS IN GUATEMALA - ARE THEY A BRIDGE IN HIV TRANSMISSION?

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^{1,2}M Sabido, ^{3,4}M Lahuerta, ⁵G Hernández, ^{2,6}A Montoliu, ^{2,6}V Gonzalez, ⁷F Giardina, ⁵J E Monzón, ⁸M I Pedrosa, ^{2,6}J Casabona, ⁸R Guevara. ¹Fundació Sida i Societat, Barcelona, Catalonia, Spain; ²CIBER Epidemiología y Salud Pública (CIBERESP), Barcelona, Spain; ³International Center for AIDS Care and Treatment Programs, Columbia University-Mailman School of Public Health, New York, USA; ⁴Fundació Sida i Societat, Barcelona, USA; ⁵Fundació Sida i Societat, Escuintla, Guatemala, Guatemala; ⁶Centre for Epidemiological Studies on HIV/AIDS and STI of Catalonia (CEEISCAT), ICO/Health Department, Generalitat de Catalunya, Badalona, Spain; ⁷Fundació Sida i Societat, Barcelona, Catalonia, Spain, Spain; ⁸Health District of Escuintla, Ministry of Health, Guatemala, Guatemala

Background Clients of female sex workers (FSW) are an important target group for HIV/STI prevention. This study aimed to estimate the prevalence of HIV and other sexually transmitted infections (STI) prevalence in clients examine their risk behaviours and evaluate their role as a bridge population in the spread of HIV/STI.

Methods Cross-sectional study conducted between 2008 and 2009 among 553 clients recruited through a two-stage convenient sample in commercial sex sites in the province of Escuintla, Guatemala. They were interviewed and tested for HIV and other STI. Bridge clients were defined as those who engaged in sex with both regular partners and FSWs but reported inconsistent condom use with FSWs whereas potential bridge as those reported consistent condom use with FSWs. Non-bridge clients engaged in sex with only FSWs. Multinomial and multivariable logistic regression models were used to identify risk factors associated with the bridge category and with having ≥ 1 STI/HIV, respectively.

Results Half of the clients approached refused participation. Median age was 28.9 years; 57.7% had a regular partner, of whom 10.1% had concurrent non-commercial partnerships. Consistent condom use with FSW and regular partners was 72.5% and 17.1%, respectively. The main reason for not using condoms was trust (49.5%). Approximately 18% formed a bridge, and 40.0% a potential bridge. Among those who provided samples (70.5% a blood sample and 89.7% urine sample), prevalence of HIV, syphilis, gonorrhoea, chlamydia, and herpes simplex virus 2 was 1.5%, 1.0%, 0.8%, 5.5%, and 3.4%, respectively. Unprotected sex with FSWs and drug use just before sex were risk factors for having any STI (9.8% of

participants). Bridge clients were significantly less educated, more employed, paid lower prices to the FSW just visited, and had a previous STI.

Conclusions Clients showed high-risk sexual behaviour, a relatively high prevalence of HIV in clients compared to national estimates and a substantial proportion of them act as a bridge for HIV/STI transmission between FSW and the general population in Escuintla. Given that this is fuelling the current HIV epidemic, preventive interventions addressing this hard-to-reach group are urgently required. A significant challenge is to overcome the difficulty of reaching clients as well as to address the variety of high-risk behaviours among clients by partner type in this setting and take into account traditional concepts of masculinity.

P1-S2.07 STI RATES AND RISK FACTORS AMONG FEMALE SEX WORKERS ATTENDING STI TESTING SITES IN GERMANY, JANUARY–DECEMBER 2010

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S Nielsen, K Haar, A Sailer, O Hamouda. Robert Koch Institute, Berlin, Germany

Background Epidemiological studies on female sex workers (FSW) in Europe are limited. Since January 2010, selected German local health departments (LHD) offering STI testing services, have collected test results and behavioural data among FSW attendees. Using the data collected from January to December 2010, we assess STI positivity rates and identify risk factors for acquiring STIs among FSW tested at LHDs in Germany.

Methods 30 LHDs throughout Germany voluntarily submit quarterly reports with the number of FSW tested and found positive for any of the following STIs—HIV, Chlamydia (CT), Gonorrhoea (GC), Syphilis, Trichomoniasis (Tvag) and bacterial vaginosis (BV). Physicians provide basic demographic data, medical history relating to STI and information on where the FSW meet clients. In a separate questionnaire FSW provide information on for example, number of clients per week, sexual practices and drug use. Data for the in total 123 variables is consolidated and validated at the Robert Koch Institute. Uni- and multi-variable logistic regressions were used to identify relevant risk factors for being infected with CT, GC, Syphilis and/or Tvag (STI positive) and OR with 95% CIs were calculated.

Results In 2010, 6675 FSW were seen and a total of 19557 STI tests were performed. Physicians provided background data for 1142 (17%) of all FSW seen and of these 399 provided additional behavioural data. Median age was 30 (range—15–77 years), 72% were born outside Germany. Overall 7% of all tests were positive. The most common diagnoses were—BV (32.1% of 2770 tests), CT (6.8% of 3807), Tvag (3.3% of 2529) and GC (3.0% of 4223). 1.3% (of 3191) were positive for Syphilis and 0.2% (of 3037) HIV positive. Risk factors associated with a higher chance of testing STI positive included—poor knowledge of German language, OR=3.6 (2.5 to 5.0), meeting clients on the street, OR=3.5 (2.3 to 5.3) and increased number of clients per week. The risk of STI decreased with year of age, OR=0.95 (0.93 to 0.97), and was lower among FSW meeting clients on the internet, OR=0.5 (0.3 to 0.7) and FSW with health insurance, OR=0.4 (0.3 to 0.5) see Abstract P1-S2.07 Table 1.

Conclusions STI positivity rates, especially for HIV and syphilis seem relatively low among the FSW attending STI testing sites in Germany in 2010. FSW are a heterogeneous group and public health efforts should target those most at risk such as the young, migrant, uninsured and street-based women who sell sex.