lowest 39% in 2005 and the highest 62% in 2008. HIV prevalence in male STI patients tested for syphilis varied between the lowest 0.2% in 2005 and the highest 3.4% in 2008 and in MSM increased from 0% in 2002 to the highest 7.6% in 2011 (more than 5% for the first time). In the same sentinel population of MSM, the proportion reporting "condom use" increased from 47% in 2002 to 52% in 2011, and "HIV testing" varied between 27% in 2007 and 40% in 2009.

Conclusion The burden of HIV among MSM in Slovenia is disproportionately high and increasing. Promotion of safer sexual behaviour and HIV testing among MSM as well as positive prevention among MSM with diagnosed HIV infection are urgently needed.

P3.126 SEX PARTNER MEETING PLACE TYPOLOGIES REPORTED BY NEWLY DIAGNOSED HIV-INFECTED MSM

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Background Men who have sex with men (MSM) are affected by HIV more than any other group in the US, accounting for more than half of all new HIV infections annually. Within this group, young Black MSM (13–24) have had the highest increase in new infections. Characterizing sex partner meeting places of newly diagnosed HIV-infected MSM by race and age may help to identify locations for targeted control strategies in the populations most at risk. Targeted HIV control strategies seek to prevent HIV transmission by focusing specifically on those most likely to transmit, i.e. those with new infections or high viral loads. The objective of this study was to describe sex partner meeting place typologies and their distribution by age and race among newly diagnosed HIV-infected MSM in Baltimore, Maryland.

Methods Using retrospective surveillance data of newly diagnosed HIV-infected MSM reported to the Baltimore City Health Department from 2009–2011, we identified the most frequently reported sex partner meeting place typologies and characterised their distribution by age and race.

Results Among 243 reports of newly diagnosed HIV-infected MSM, 91% (220) were interviewed, and 64% (141) of those interviewed provided information on their sex partner meeting places in the past 12 months. Among the 141, 45% reported a bar or club, 41% reported using the internet, and 20% reported other places such as street corner or school. Meeting sex partners via the internet was more frequently reported by younger (≤ 24 years) compared to older MSM (49% vs. 34%, respectively) and Black compared to white MSM (43% vs. 28%, respectively).

Conclusion Among those who reported sex partner meeting places, young (vs. older) and Black (vs. white) MSM more frequently reported meeting sex partners via the internet. The internet may be an important location for targeted HIV control strategies especially among young Black MSM.

P3.127 HIGH PREVALENCE OF ASYMPTOMATIC SEXUALLY TRANSMITTED INFECTIONS (STIS) IN HIV-INFECTED MEN WHO HAVE SEX WITH MEN (MSM) IN IRELAND: STRATEGIES TO IMPROVE SCREENING

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Background In Ireland the prevalence of STI's is steadily increasing while the number of new HIV-diagnoses in MSM has more than doubled in the past decade. International guidelines recommend annual STI screening for MSMs regardless of reported history, with

more frequent screening recommended for at-risk individuals. This study investigates prevalence of STIs in asymptomatic HIV-infected MSM in the largest HIV-centre in Dublin.

Methods A retrospective analysis was performed via electronic patient record review. Pharyngeal, urethral and rectal testing for Gonorrhoea (Gc) and Chlamydia (CT) was performed using validated nucleic acid amplification techniques.

Results Fifty HIV-infected MSM were included in the study (mean age [SD] 38 years [9], 66% Irish). Mean [SD] number of sexual partners in the preceding 12 months was 8 [13]. By subject report 10% were abstinent, 40% always used condoms, 42% used condoms inconsistently while 4% reported never using condoms. Thirty-nine (78%) were on HAART and 38 (97%) were virally suppressed.

Eight (16%) tested positive for an STI. Two (25%) were documented as having two concurrent STIs and two (25%) were not on HAART.

Gc was detected in all 8 positive screens (4 cases of rectal and 4 cases of pharyngeal Gc). There were 2 cases of rectal CT which occurred with a concurrent positive rectal Gc. Younger age [29 vs. 40 years, $p < 0.001$] was the only independent predictor of positive STI screen.

Conclusion Sixteen percent of HIV-infected MSMs screened were diagnosed with an STI. 46% of HIV-infected MSM reported unprotected sexual activity. Recognising a need to optimise provision and delivery of STI screening, a pilot self-screening programme has been successfully introduced to our HIV-clinic. Our study highlights the importance of screening for asymptomatic STI's and the need for increased educational interventions targeting unsafe sexual-behaviour as a means of disease prevention.

P3.128 DETERMINANTS FOR DECLINE IN HIV PREVALENCE AMONG HIGH-RISK MEN WHO HAVE SEX WITH MEN AND TRANSGENDER (MSM-T) IN SOUTH INDIA

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Background To evaluate the impact of Avahan, the India AIDS Initiative of the Bill & Melinda Gates Foundation, two rounds of integrated biological and behavioural assessment (IBBA) surveys were conducted in 2006–07 and 2009–10 among high-risk men who have sex with men (MSM-T) across 14 districts in south India to measure the prevalence of HIV and sexually transmitted infections (STIs), and related risk factors ($n=4,300$ per round). We studied the determinants for decline in HIV prevalence among MSM-T.

Methods Random slope multilevel models were developed using logistic regression procedures to examine the effects of round, district level and individual variables on HIV prevalence among MSM. The model also controlled for baseline HIV prevalence.

Results HIV prevalence among MSM-T significantly reduced from 13.1% in round 1 to 11.4% in round 2 ($p = 0.017$). MSM-T who were aged 25 and above, whose self-reported receptive sexual role (Kothi), who had male sexual clients, who were illiterate, who first had sex before age 15 and who ever used condoms, were significantly more likely to have HIV. Surprisingly, MSM-T who had paid a female partner were less likely to have HIV (OR: 0.71 $p = 0.008$). There was a statistically significant effect modification between round and syphilis, with a statistically significant decline in HIV prevalence between survey rounds among MSM-T without syphilis (OR: 0.73,

$p = 0.002$), whereas there was a non-significant HIV increase among MSM-T with syphilis (OR: 1.36, $p = 0.086$).

Conclusion Overall HIV prevalence declined significantly among MSM-T from round 1 to round 2 in Avahan intervention districts in south India. The lack of decline in presence of syphilis suggests that the latter is an important marker of risky behaviour. These results, in conjunction with those obtained in other groups targeted by the intervention; suggest that Avahan had a major impact on the HIV epidemic in south India.

P3.129 IDENTIFYING RECENTLY ACQUIRED HIV INFECTIONS AMONG NEWLY DIAGNOSED MEN WHO HAVE SEX WITH MEN IN THE NETHERLANDS

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Background The number of newly diagnosed HIV infections among men who have sex with men (MSM) has gradually increased in the Netherlands during the past decade. However, the current HIV surveillance system cannot differentiate recent HIV infections from longstanding HIV infections. We determined the proportion of recent HIV infections (RI) and estimated HIV incidence using Recent Infection Testing Algorithm (RITA) among newly diagnosed HIV infections among MSM in Amsterdam and Rotterdam.

Methods Plasma samples ($n = 251$) collected from newly HIV-diagnosed MSM during 2009–2011 at the STI clinics in Amsterdam and Rotterdam were analysed in the study. To test for recent infections, anti-HIV avidity index (AI) was measured in plasma with Architect HIV Ag/Ab Combo immunoassay. Samples were classified as recent if the AI was ≤ 0.80 . Data on viral load, CD4 count and previous HIV testing were incorporated in the RITA algorithm to minimise false recent infections. HIV incidence and 95% confidence intervals (CI) were estimated using previously described methods.

Results Of the 251 samples from MSM, 83 were classified as recent by the avidity index. Five cases were reclassified as non-recent based on low CD4 count ($n = 2$) and viral load ($n = 2$) and history of HIV infection ($n = 1$) and thus, 78/251 (31%) infections were determined as recent on RITA. Proportions of RIs in 2009, 2010 and 2011 were 32%, 28% and 33%, respectively. The estimate for combined incidence was 1.5% per year (95% CI 1.17–1.83). No significant changes over time were observed.

Conclusions This study estimated the proportion of RIs and HIV incidence among MSM in the Netherlands using the RITA algorithm for the first time. The proportion of RIs was comparable to similar studies in other European countries such as the UK, which however used different methodology.

P3.130 HIGH PREVALENCE LEVELS OF HIV AND SEXUALLY TRANSMISSIBLE INFECTIONS AMONG MONEY BOYS IN CHINA

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Background Commercial sex workers within the population of men who have sex with men (MSM) in China, known as 'money boys' (MBs), are perceived to be at higher risk for HIV and other sexually-transmissible infections (STIs).

Methods We conducted a systematic review and meta-analyses from peer-reviewed literature accessed in two English (PubMed and Embase) and three Chinese databases (CNKI, CQVIP, Wanfang data). A data synthesis exercise was carried out to determine the extent and patterns of behaviours and HIV/STI epidemics. Pooled estimates, with 95% confidence intervals, for each study variable were calculated.

Results Thirty-two eligible articles (9 in English and 23 in Chinese) were identified. Our analysis indicated that Chinese MBs are generally young, currently employed, at low literacy levels and highly mobile. The prevalence of HIV, syphilis and co-infection among MBs were estimated to be 6.0% (4.2–8.5%), 12.4% (9.9–15.3%) and 2.2% (1.1–4.1%) over the period of 2004–2011. Level of condom use among MBs is generally higher than the broader MSM population (69.2% at last act, and 48.5% consistently over the past 6 months). One-third of the Chinese MBs identified themselves as bisexual and 8.7% (5.6–13.5%) are currently married to a female. Further, 40.9% (34.5–47.7%) of MBs participated in group sex in the past 12 months and 14.8% (10.6–20.3%) concurrently use illicit drugs.

Conclusions HIV/STI epidemics have affected Chinese MBs but the evidence suggests that the extent of infections is not greater than among other MSM in China.

P3.131 TRENDS IN HIV INFECTION SURVEILLANCE DATA AMONG MEN WHO HAVE SEX WITH MEN IN ALBANIA, 1993–2012

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Background Albania is still a low HIV prevalence country, however the recent reports on the growing HIV reported cases per year show an increase of reported HIV among MSM in Albania. Furthermore, the results from the repeated bio-behavioural surveillance studies in 2005 and 2008, and 2011 indicate that high risk behaviours are still present among MSM.

Methods During the years 1993 to 2012 our study shows increase of HIV among MSM and their socio-demographic and epidemiological characteristics of this group in Albania. These cases are described by age, place of infection, clinical stage of HIV infection, STI co-infection and source partner. To get the estimated trends over this period we used simple linear regression.

Results During the study period, 57 MSM, aged from 17 to 73 years, were diagnosed with HIV. No significant trends over time in overall median age (36 years) were observed. Most of the MSM or, 70% (40 cases) were infected in Albania and the rest abroad. In the years 1993–2007, 1 to 3 MSM were diagnosed with HIV each year, while in the years 2007–2012 this increased to between 7 and 9 cases. The proportion of MSM, presenting AIDS make up 33% (19 cases) and the rest were diagnosed in the HIV stage. 28% (16) of them were married. STI co-infection was reported in 15.7% (9 cases). The majority of them live in urban area, 64% of them live in capital city, 7% of them belong to Roma ethnicity.

Conclusions HIV cases among MSM per year are increasing. Current prevalence of HIV in MSM is higher than the general population (from BIO-BSS conducted). The increase in STI co-infections indicates risky sexual behaviour and a potential to spread both HIV and other sexually transmitted infections so HIV prevention strategies should be targeted on this vulnerable group.

P3.132 COULD HIV SEROSORTING EXPLAIN INCREASES IN SYPHILIS PREVALENCE AMONG MEN WHO HAVE SEX WITH MEN? - A MATHEMATICAL MODELLING STUDY

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