assess whether this association can be explained by behavioural/sexual networking patterns, the existence of a biological substrate, or both.

Disclosure of interest statement All authors declare no conflicts of interest.


Introduction Syphilis infection has been increasing among men who have sex with men (MSM) in Thailand. We assessed syphilis incidence and associated risk factors in the Bangkok MSM Cohort Study (BMCS).

Methods We enrolled Thai MSM aged ≥18 years old in the BMCS from April 2006 to January 2008 (Period1) and September 2009 to December 2010 (Period2), and followed participants every 4 months for up to 60 months. Treponema pallidum (TP) screening was performed at enrollment, annually and at any unscheduled study visits if indicated, using the rapid plasma reagent (RPR). If the RPR was reactive, we confirmed with a TP-specific antibody test. We defined incident syphilis as a RPR titer ≥1:8 and a reactive treponemal test. We calculated risk factors for incident syphilis in all participants using a Cox proportional hazard model, adjusting for baseline demographic and behavioural characteristics, and prevalent HIV infection.

Results Among 1,502 participants who had no syphilis at baseline and had more than one follow-up visit, 54.7% reported unprotected anal intercourse (UAI). The overall syphilis incidence was 2.7 (95% CI 2.3—3.1) per 100 person-years (/100PY). There was a significant difference in syphilis incidence in the two periods (2.5/100PY in Period1 vs. 3.3/100PY in Period2, p = 0.003). Factors independently associated with incident syphilis were enrollment in Period2 (Adjusted HR [AHR] 1.7; 95% CI 1.2—2.4), UAI (AHR 1.4; 95% CI 1.0—2.0), amyl nitrate use (AHR 1.9; 95% CI 1.2—2.8), Viagra use (AHR 1.6; 95% CI 1.1—2.5), and prevalent HIV infection (AHR 2.3; 95% CI 1.6—3.1).

Conclusion In the BMCS, statistically significant differences in incident syphilis by enrollment period may be due to recent increases in syphilis among urban Thai MSM. Syphilis screening identifies MSM at high risk for HIV, and syphilis screening and treatment are necessary for comprehensive HIV VCT services.

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P11.20 RESURGENCE OF SYPHILIS AMONG HIV-INFECTED MEN WHO HAVE SEX WITH MEN ATTENDING STI CLINICS IN THE NETHERLANDS

WOMEN IN LIMA, PERU

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Introduction In the Netherlands, approximately 90% of all infectious syphilis (syphilis) and 70% of all new HIV infections are among men who have sex with men (MSM). As the relation between syphilis and HIV is characterised by a bidirectional synergy, we assessed syphilis trends among MSM stratified by HIV status.

Methods The national STI/HIV surveillance contains epidemiological, behavioural and clinical data from STI clinics, which provide low threshold STI/HIV testing and care for high-risk groups. We descriptively examined syphilis positivity rates between 2007 and 2014.

Results The number of MSM consultations increased each year from 11,048 in 2007 to 29,939 in 2014. Of all MSM, 83% were HIV-negative. The number of syphilis diagnoses was lowest in 2011 (n = 426) and highest in 2014 (n = 693), of which around 40% was among HIV-infected MSM each year. Among known HIV-infected MSM, the syphilis positivity rate decreased between 2007 (12.3%) and 2011 (4.5%), followed by an increase in recent years (2014: 6.6%). Among MSM newly diagnosed with HIV, this trend was roughly similar to that of known HIV-infected MSM. Among HIV-negative MSM, the syphilis positivity rate decreased between 2007 (2.8%) and 2011 (1.4%), and remained stable thereafter.

Conclusion The observed rebound in syphilis rates in a high-risk group of HIV-positive MSM is concerning at individual level, given the adverse effects on both syphilis and HIV disease progression. At public health level, this is worrisome as syphilis facilitates transmission and acquisition of HIV. Therefore, syphilis infection could be indicative to offer HIV pre-exposure prophylaxis (PrEP) among HIV-negative MSM. On the other hand, offering PrEP to a high-risk core group could promote syphilis transmission if it leads to reduced perceived vulnerability and subsequent increased risk behaviour, as seen after the introduction of cART.

Disclosure of interest statement The authors declare that they have no competing interests.

P11.21 CHARACTERISING THE EPIDEMIOLOGY OF ACTIVE HEPATITIS B VIRUS INFECTION AMONG HIGH-RISK MEN WHO HAVE SEX WITH MEN AND TRANSGENDER WOMEN IN LIMA, PERU

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