

infection among men who have sex with men over 50 years in Shenzhen, China.

Methods Snowball sampling and respondent driven sampling were used to recruit MSM from 2009 to 2015 in Shenzhen, China. Questionnaire-based interviews were conducted on a one-on-one basis to collect data of socio-demographic information, HIV testing history, history of blood donation in recent two years, self-identified sexual orientation, role in homosexual behaviour, ever being money boy (MB) and clients of MB. 5 ml blood samples were taken and tested for treponema pallidum and HIV antibodies.

Results Among the total of 5221 MSM recruited, 186 (3.56%) cases were aged 50 years and older. MSM aged 50 years and older were more likely to get married, have high school or below level of education, have monthly income less than 3000 Yuan, work in service industry or be jobless. Most of them never used condoms for every act with female sexual partners. About one-third had more than 5 anal sexual partners in recent six months. They had higher rate of never using condoms when having anal sex compared with MSM aged less than 50 years. The rate of syphilis, HIV infection and syphilis-HIV co-infection among MSM aged 50 and older were 1.8917, 1.7387, 2.0365 times as high as that among MSM aged less than 50 years, respectively.

Conclusion MSM aged 50 and older had higher prevalence of syphilis and HIV and acted as bridge population to transmit syphilis/HIV. It is necessary to carry intervention measures targeted to them.

P3.32 ADOLESCENTS INFECTED BY SYPHILIS – A RETROSPECTIVE COHORT IN A REFERENCE SERVICE

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Introduction Syphilis persists as a major and ascendant health issue. However, the impact of this disease during the adolescence, a period of behavioural, sexual and psychologic vulnerabilities, is still underexplored. We aimed to evaluate the follow-up of syphilis infected adolescents attended at a reference service of sexually transmitted infections (STI).

Methods A retrospective cohort study using data from medical records of adolescents (10 to 19 years old) with diagnosis of syphilis attended at the states STI reference centre, from January to August 2012.

Results Among 776 adolescents attending the service, 58 had a diagnosis of syphilis (7.47%). The majority was male (51.7%), mean age was 16.8 (± 1.35) years, 92.3% attended school, and 58.1% had ≤ 8 years of schooling; 39.4% referred drinking alcohol and 39.5% drug use. Among the adolescents, 98.3% had already initiated sexual life, with the mean age of sexual debut of 14.2 (± 1.48) years, with an average of 2.33 (± 2.55) lifetime sexual partners. About 14.0% declared to be homosexual, 85.4% referred irregular condom use, 22.2% of the girls were pregnant, with mean age at first gestation of 16.0 (± 1.09) years. A parcel of 4.8% of the adolescents were HIV-infected, 31.0% reported a previous STI ($p=0.02$, OR 2.68, 95% CI 1.16–6.17), and 52.3% had another current STI. The mean number of medical visits was 2.33, 22.8% had primary syphilis, 17.5% had the secondary phase of the disease and 59.6% had latent or late syphilis. The social and

demographic variables were not statistically different among the adolescents in the different stages of syphilis. The genital ulcer complaint was related to the diagnosis of primary or secondary syphilis ($p=0.01$, OR 8.53, 95% CI 1.61–45.1). 91.4% of adolescents received treatment for syphilis and 56.6% performed a cure control.

Conclusion The high prevalence of other STIs associated with syphilis in adolescents demonstrates the limited knowledge of this population to care and prevention strategies, and remains a challenge for specialised services in the diagnosis and treatment of STI/HIV.

P3.33 SURVEILLANCE OF SYPHILIS IN THE STATE OF SÃO PAULO, BRAZIL

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Introduction In Brazil, has been mandatory to report congenital syphilis (1986), syphilis in pregnancy (2005) and acquired syphilis (adults) (2010) to the national surveillance system. Until June 2016, 2 27 663 cases of acquired syphilis were reported in Brazil, the state of São Paulo accounted for 44%. The aim of this study was to describe the trends observed from 2011 to 2015 of reported cases of acquired syphilis, syphilis in pregnancy and congenital syphilis in the state of São Paulo.

Methods An ecological study of historical series was conducted, assessing data of reported cases from 2011 to 2015 in the State of São Paulo, Brazil. The goodness of fit via r^2 and $p < 0.05$ were used to determine which models were most appropriate.

Results In the period 12 312 cases of congenital syphilis (CS), 25 399 cases of syphilis in pregnancy and 93 937 cases of acquired syphilis were notified. There was an increase number of cases (2011 and 2015): CS (1,517 to 3,437 - increased 2.3 times); syphilis in pregnancy (3,205 to 6,956 - increased 2.2 times); acquired syphilis (10,841 to 25,987 - increased 2.4 times). There was a trend of increase for the three reported diseases with an annual mean increase of 3894 cases/year ($r^2=0.9938$) for acquired syphilis, 998 cases/year ($r^2=0.9849$) for syphilis in pregnancy and 490 cases/years ($r^2=0.9969$) for CS. Analysing acquired syphilis by gender, there was a trend of 2528 cases/year increase in men (higher in the age from 20 to 24 years - 488 cases/year) and 1366 cases/year increase in women (higher in the age from 20 to 24 years - 264 cases/year). Among reported cases of syphilis in pregnancy, the highest increase was in the age of 20 to 24 years with 350 cases/year.

Conclusion The increase in reported syphilis cases could be explained by the reduction of underreporting; increase in early diagnosis of pregnant women; increase in cases of specific populations with higher frequency of young men. It is urgent to implement preventive and control actions towards young population, which seems to be disproportionally affected.