The Sialon project:



Undiagnosed HIV infection among MSM in six Southern and Eastern European cities

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BACKGROUND

- Men who have sex with men (MSM) remain the group most at risk of acquiring HIV infection in the European Union and European Economic Area.
- Undiagnosed HIV infection contribute disproportionally to the spread of disease.
- Little is known about determinants of undiagnosed HIV infection in MSM within Europe.

OBJECTIVES

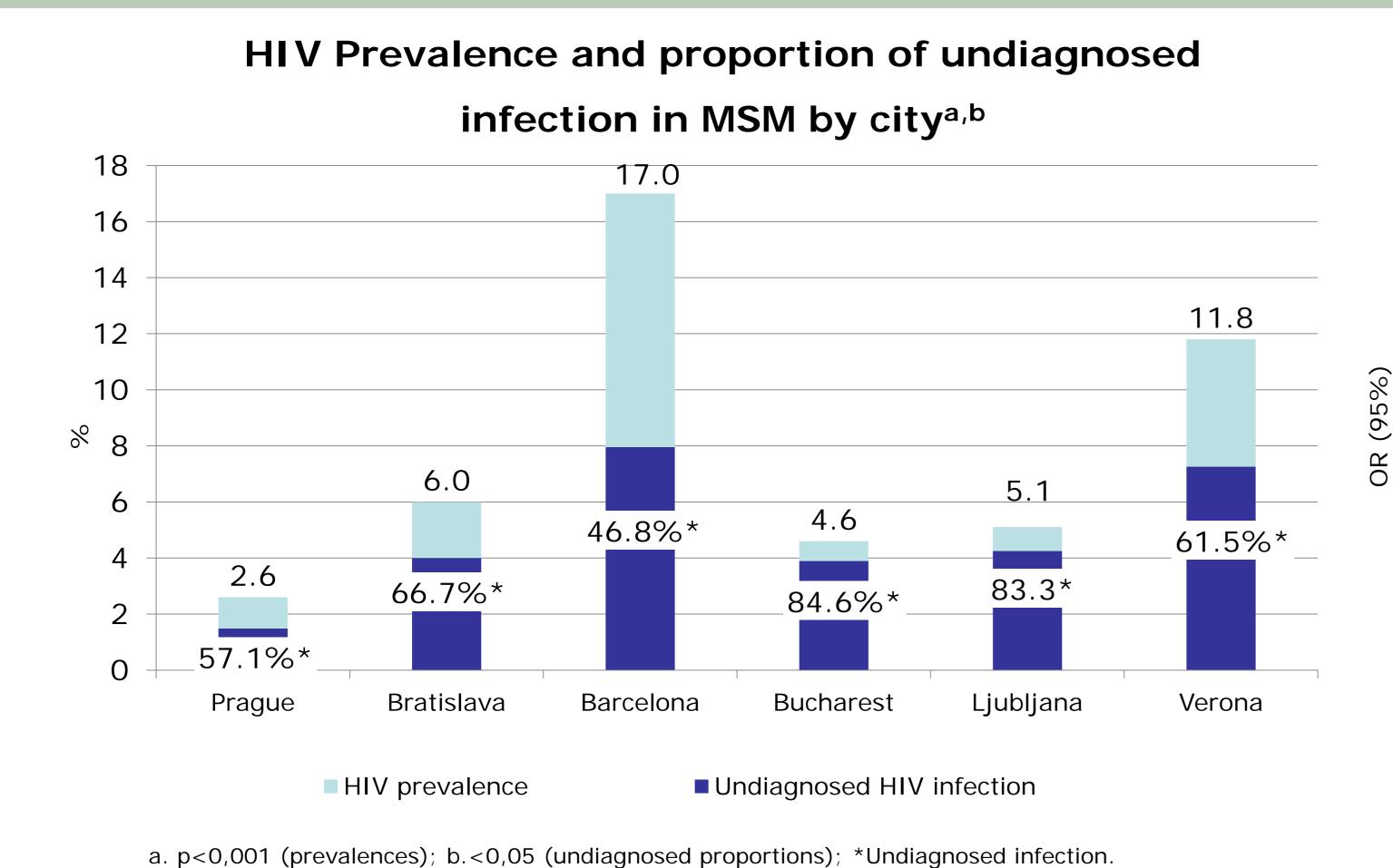
- 1) To assess the distribution of undiagnosed HIV infection in MSM in Southern and Eastern European countries
- 2) To describe the differences in epidemiology and behaviour between undiagnosed, diagnosed HIV-positive and HIV-negative MSM
- 3) To identify factors associated with undiagnosed HIV infection in the study population.

METHODS

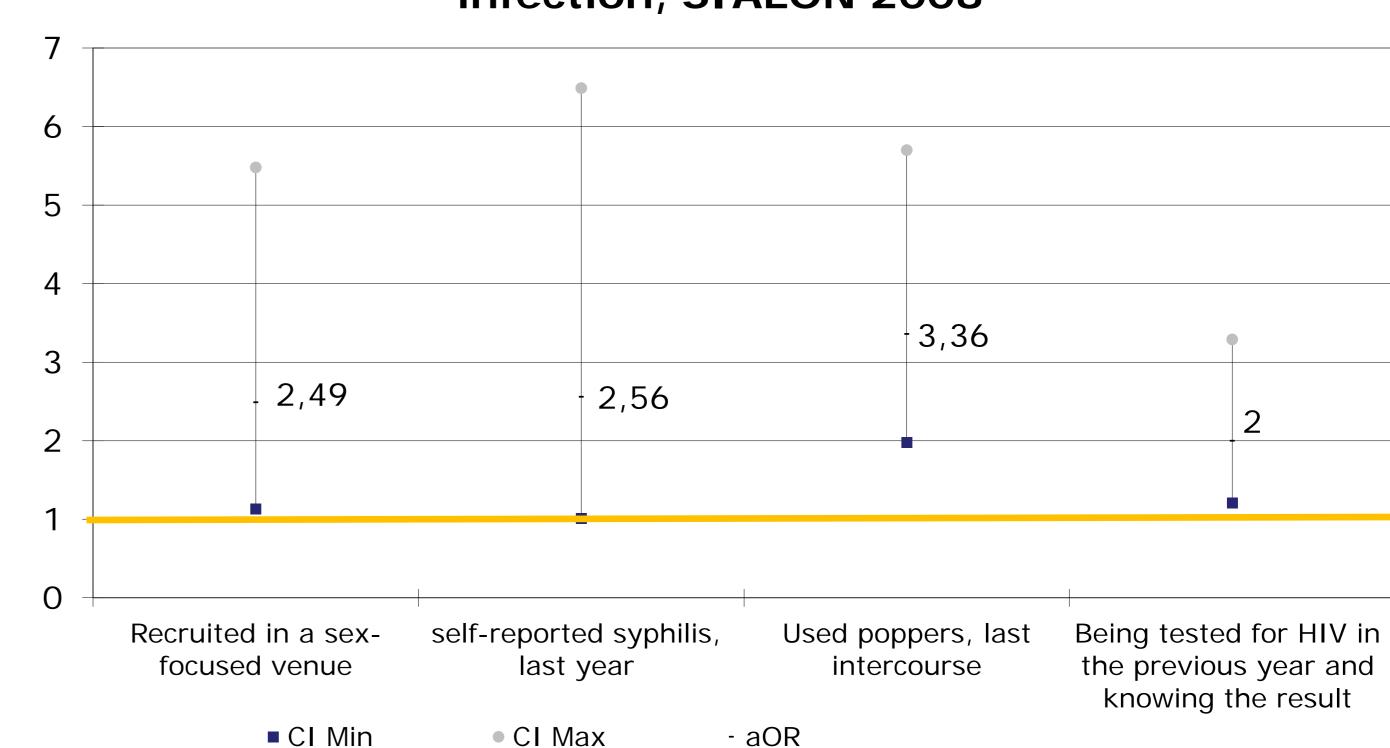
- * Sialon (2008): multi-centre bio-behavioural cross-sectional project in Barcelona, Verona, Bratislava, Bucharest, Ljubljana, Prague
- ❖ Sampling: Time-location sampling (TLS) to recruit 2,400 men attending different commercial venues
 Southern Europe

 Eastern Europe
- * Instruments: A self-administered behavioural questionnaire and oral fluid collected kits to estimate HIV prevalence
- * Study population: Men who had had any kind of sex (anal, oral or other non-penetrative sex) at least once with another man during the previous year, agreed to provide an oral fluid sample and had signed an informed consent form
- * Dependent variable: 3 Categories related to HIV status were created -- Diagnosed HIV-positive Undiagnosed HIV-positive HIV-negative
- Analysis: 1) Bivariate analysis to compare epidemiological and behavioural characteristics by HIV status. 2) HIV prevalence was calculated with corresponding 95% confidence interval (CI). 3) Multi-level analysis to identify factors associated with undiagnosed HIV.

RESULTS



Multivariate analysis predicting undiagnosed HIV infection, SIALON 2008



*Multilevel model adjusted by age; Oundiagnosed HIV+ MSM were compared to VIH-

Enidomiological characteristics of participants by

Epidemiological characteristics of participants by HIV status * p<0,001 Mean age Mean no casual partner, last 6 months Last sex in sex focused venues Self-reported STI, last 12 months **Undiagnosed** HIV+ <u>Undiagnosed</u> <u>Undiagnosed</u> Diagnosed HIV+ <u>Diagnosed</u> <u>Undiagnosed</u> HIV-<u>Diagnosed</u> **Diagnosed** HIV-HIV-HIV-<u>HIV+</u> <u>HIV+</u> <u>HIV+</u> <u>HIV+</u> HIV+ <u>HIV+</u> Syphilis (36%) 18%*) 39* 34 (19*) (32%) Condyloma 〔15**)* 2.5 14

CONCLUSIONS

✓ Many HIV infections remain undiagnosed and there is evidence of the persistence of frequent risk behaviours and STI despite knowledge of HIV-positive status in Southern and Eastern Europe, which indicates the need for a multidimensional approach to HIV/STI prevention.

✓ Access to HIV testing should be considered a priority in prevention programs targeting MSM, especially in Eastern Europe.







