**Poster presentations**

**P3.092** Prevalence of *Trichomonas vaginalis* in France and comparison with *Chlamydia trachomatis* and *Neisseria gonorrhoeae* as determined by the APTIMA *Trichomonas vaginalis* Nucleic Acid Amplification Assay


M Dautigny, A Ebel, S Merlin, A Souciet, C Ronsin. Laboratoire Biomnis, Ivry sur seine cedex, France

In France, few data on prevalence of *Trichomonas vaginalis* in the general population as well as in high-risk populations exist. We determined *Trichomonas vaginalis* (TV) together with *Chlamydia trachomatis* (CT) and *Neisseria gonorrhoeae* (NG) prevalence, in men and women with or without symptoms of sexually transmitted infections (STI), undergoing CT and NG screening in France. 683 men and 2432 women were enrolled on a basis of either urethral, cervical or vaginal swabs, urine or sperm samples, using the APTIMA *Trichomonas vaginalis* assay (ATV, Hologic | Gen-Probe) and the APTIMA Combo 2 assay for CT and NG (AC2, Hologic | Gen-Probe), respectively.

Overall TV, CT and NG prevalence in women was 0.7%, 6.13% and 0.49%, respectively, and in men 0.44%, 9.52% and 3.07%, respectively. All in all 20 patients were positive for TV, 17 women and 3 men, with the highest TV prevalence in women of >40 years (1.59%), while CT (11.58%) and NG (0.87%) prevalence was highest in women <30 years.

Co-infections were relatively low: No subject was coinfected with CT/TV, most probably due to prevalence in different age groups, and 5 subjects were coinfected with CT/NG, 3 women and 2 men.

The CT prevalence reported here is higher than what was reported in earlier epidemiologic studies in France. The low prevalence of TV may be due to a bias in tested population.

In this study we determined prevalence of the 3 infections in women and men in all age groups and in relation to the specimen type. Furthermore, we provide a detailed analysis of the results obtained from the 20 TV positive cases. Further studies are needed to estimate the prevalence of TV in other targeted populations.

**P3.093** Similar, low prevalence of *Trichomonas vaginalis* in three patient cohorts from general practitioners. A population based chlamydia screening study and an STI-clinic


'H Geelen, 'D J P A Hoebe, 'A Dirks, 'J E van Bergen, 'N H T M Dukers-Muijers, 'P F G Wolffs. 'Maastricht University Medical Center, Maastricht, The Netherlands; 'Department of Sexual Health, Infectious Diseases and Environment, Public Health Service, South Limburg, Geleen, The Netherlands; 'STI Aids The Netherlands, Amsterdam, The Netherlands

**Background** Among sexually transmitted infections (STIs), *Trichomonas vaginalis* (TV) is the most common non-viral STI worldwide. However, in Europe, a limited number of studies, mostly on specific risk groups, have described a low TV prevalence. Therefore a large multi-cohort study was performed to investigate the prevalence of TV among three distinct Dutch patient populations. Additionally, the relationship between *Chlamydia trachomatis* (CT) and TV co-infection was assessed.

**Methods** 2089 participants, men and women, were included between 2008 and 2012 from three distinct cohorts. A total of 575 participants from the population-based national Chlamydia Screening Intervention (CSI) study, 465 attendees of the STI-clinic South Limburg and 602 patients from general practitioners (GPs) were included. An additional number of CT positives (n = 447) was included to assess TV and CT co-infection. All participants were assessed for TV using real-time PCR.

**Results** The overall prevalence of TV was 0.9% among the three distinct cohorts and no significant differences between the 3 study populations were observed (GP patients (1.5%), STI clinic (0.6%) and population-based cohort (0.7%)). TV was found in 0.7% of the CT positives and a similar 1.1% among CT negatives. In contrast to CT prevalence which significantly decreased with increasing age, TV prevalence was highest in the age group >40 years (2%), but did not differ significantly from other age-groups.

**Conclusion** This large multi-cohort study confirms the low burden for TV in the Netherlands (<2%) as in most European countries. We have no indication for standard TV testing in regular care.

**P3.094** *Trichomonas vaginalis* infection among women of reproductive age group in a cosmopolitan setup.


A R Almadi. Cyberjaya University College of Medical Sciences, Cyberjaya, Malaysia

Trichomoniasis is one of the most common sexually transmitted infections in humans. In a prospective, observational study, 380 women attending the family planning (FP) clinic and Sexually Transmitted Diseases (STD) clinic in Kuala Lumpur were enrolled. Patient’s information was obtained from the standardised medical records and voluntarily completed questionnaires. Three vaginal swabs from posterior fornix were taken from each patient. Different staining methods and cultivation in Diamonds medium were performed for the collected samples. Study subjects recruited in this survey were mostly young, with a geometric mean of 37.31 years (FP clinic) and 32.06 years (STD clinic). Malay, Chinese, Indians and others ethnic