Determine the frequency of detection of M. genitalium and to investigate causal relationship between M. genitalium and cervicitis.

**Methods** Two hundred women who attended gynecologic clinics were recruited. Mucopurulent cervicitis was defined as presence of either visible yellow mucopus or presence of >30PMNL/1000 X microscopic field on gramme stain smear of cervical mucus. First void urine (FVU), three endocervical swabs (ECS) were collected from the study group and control group. All the samples were tested by PCR amplification for presence of M. genitalium by targeting MgPa gene as described previously. Samples were also subjected to culture for other genital Mycoplasmas and PCR amplification for Chlamydia trachomatis and Neisseria gonorrhoeae.

**Results** Mycoplasma genitalium was found in 6% from ECS and 5% from Urine of women with Cervicitis and overall M. genitalium was detected in 11% of women and 1% from Controls (P < 0.05). Disordered proliferative endometrium was observed in 4 of the M. genitalium positive cases. All the patients who were positive for Chlamydia trachomatis (5%) and Mycoplasma hominis (7%) and Ureaplasma urealyticum (4%) were excluded from the study. Prior to study, all patients were tested for T reponema pallidum (TP), C. trachomatis (CT), N. gonorrhoeae (NG), T richomonas vaginalis (TV), Neisseria gonorrhoeae (NG), Chlamydia trachomatis (CT), Neisseria gonorrhoeae (NG), Trichomonas vaginalis (TV) and Mycoplasma genitalium (MG). Participation was voluntary and anonymous.

**Conclusions** The study suggests association of M. genitalium infection and Cervicitis and this microorganism should be routinely screened in patients of cervicitis.
The increase in the number of health facilities as well as the number of cases could reflect in part the positive impact of actions implemented by the state programme.

P3.297 **TRENDS AND ASSOCIATIONS OF TRICHOMONAS VAGINALIS INFECTION IN MEN AND WOMEN WITH GENITAL DISCHARGE SYNDROMES IN JOHANNESBURG, SOUTH AFRICA**


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**Objectives** To better understand the epidemiology of *Trichomonas vaginalis* infection, we investigated the association between *T. vaginalis* and demographic, clinical, microbiological and behavioural characteristics of patients presenting with genital discharges to a primary healthcare clinic in Johannesburg, South Africa.

**Methods** During six annual surveys (2007–2012), 1,218 male urethral discharge syndrome (MUDS) and 1,232 vaginal discharge syndrome (VDS) cases were consecutively recruited. Diagnostic methods included nucleic acid amplification (*Neisseria gonorrhoeae*, *Chlamydia trachomatis*, *T. vaginalis*, *Mycoplasma genitalium*), microscopy (*bacterial vaginosis*, *Candida*), and serology (*Treponema pallidum*, HSV-2, HIV). Chi-squared tests and logistic regression analyses were used to identify predictors of *T. vaginalis* infection.

**Results** *T. vaginalis* prevalence decreased from 2007 to 2012 (men, 13.4% to 4.8%, p < 0.001; women, 33.8% to 23.1%, p < 0.001). Overall, 74 (6.1%) men and 291 (23.6%) women were *T. vaginalis* positive, with the highest prevalence in those aged ≥ 40 years (men, 13.6%; women, 30.9%). *T. vaginalis* infection occurred more often in pregnant women (adjusted odds ratio, aOR, 2.67, 95% confidence intervals, CI, 1.29–5.54) and women with serological evidence of *T. pallidum* (aOR, 1.63; 95% CI 1.08–2.45) or HSV-2 infections (aOR, 1.75; 95% CI 1.16–2.64). *T. vaginalis* infection occurred less often in men with co-existent gonorrhoea (aOR, 0.35; 95% CI, 0.21–0.57) and in women with either BV (aOR, 0.60; 95% CI 0.44–0.82) or Candida morphotypes (OR, 0.61; 95% CI 0.43–0.86).

**Conclusions** Although the prevalence of *T. vaginalis* infection decreased over time, it remains an important cause of genital discharge in South Africa, particularly in older patients and pregnant women.

P3.298 **TETRACYCLINE RESISTANCE IN UREAPLASMA SPECIES ISOLATED FROM WOMEN PRESENTING FOR TERMINATION OF PREGNANCY IN PRETORIA, SOUTH AFRICA**


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**Background** The risks of untreated sexually transmitted infections in association with termination of pregnancy are known to women. However, there is limited data on the susceptibility profiles and mechanisms of resistance amongst *Ureaplasma* strains circulating in the Pretoria community. This study was undertaken to determine antimicrobial resistance to tetracycline among *Ureaplasma* species isolated from women presenting for termination of pregnancy at a tertiary referral hospital in South Africa.

**Methods** Two vaginal swabs were collected from each of 100 women after written informed consent was obtained. The first swab was used for PCR detection of genital ureaplasmas and tetracycline- resistance genes. The second swab was used for culture (*Mycoplasma Duo kit*) and phenotypic antimicrobial susceptibility testing (SIR *Mycoplasma kit*).

**Results** *Ureaplasma* species were isolated from 46 women (46%). Forty-two women were infected with *U. urealyticum*, 1 with *U. parvum* and 3 were dually infected. Susceptibility profiles were obtained for 41 isolates. Fifteen (36.6%) demonstrated resistance to tetracycline. Fourteen (34.1%) were also resistant to doxycycline with 1 isolate showing intermediate resistance. All 41 strains contained the tetM gene, 39 contained the 1.7kb fragment of the tetracycline resistance gene and 36 strains contained the int-Tn gene.

**Conclusion** *Ureaplasma* isolates were isolated from nearly half the study population of women presenting for TOP. The predominant species identified was *U. urealyticum*. Tetracycline and doxycycline resistance was detected nearly a third of the isolates and this has implications for management of patients to prevent post-partum complications. The study will be expanded and communicated to the National Department of Health as this will impact future strategies in this country.

P3.300 **ASSESSMENT OF SEXUAL BEHAVIOUR OF ALBANIAN HIGH SCHOOL STUDENTS**


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**Background** The aim of this study is to assess the sexual behaviour of high school youngsters in Albania in order to design better behaviour change interventions targeting this group of young people.

**Methods** This is a quantitative behavioural survey targeting young pupil attending high schools carried out in all regions in Albania. A representative sample of 2172 pupils of age group 15–19 years old was included in the study. A stratified random sampling technique was used to obtain this sample. A self administered structured questionnaire was used to collect data. Data analysis was made using SPSS version 12.

**Results** Almost 30% of participants of the study reported having had sexual intercourse, with a median age at first intercourse of 15 years. Only 23% of those experiencing sexual intercourse have ever used a condom. The reason for using it is to prevent an unwanted pregnancy and not to prevent sexually transmitted infections. 90% of the young people identified pharmacy stores as the only place to find condoms, while the family planning centres are not considered at all. Majority of young people did not discuss issues regarding condom use with their sexual partners.

**Conclusion** Although sexual education is part of the school curricula since few years, further strategies and interventions are needed to address issues regarding delaying first sexual intercourse and increasing condom use among high school young people in Albania.

P3.301 **MALE CLIENTS OF SEX WORKERS IN THE UNITED STATES: CORRELATES WITH STI/HIV RISK BEHAVIORS AND URBANIZATION LEVEL**


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**Background** Men who have purchased sex from sex workers (“clients”) have been associated with an increased risk of acquiring STIs including HIV and in influencing the spread of infection in the...