Background Within the BORDERNETwork-project a biobehavioural sentinel surveillance was established in Austria, Bulgaria, Romania and Slovakia in 2010–12. The objectives were to record lab-confirmed STI (chlamydia, gonorrhoea, syphilis, HIV) in clinical settings and merge them with demographic and behavioural data to assess migration aspects, vulnerable groups and risk factors and recognise necessity for targeted interventions.

Methods On a monthly base, physicians reported aggregated STI testing data. Individual data was provided for each positive patient including demographics, re- and co-infections and assumed risk behaviour. Via patient questionnaires, information on socio-demographics, way of transmission and sexual behaviour was collected. All questionnaires were sent via regional to coordinating partners for merging and analysis.

Results Overall, 467797 tests were performed in 45 sentinel sites (Austria 13, Slovakia 14, Romania 15, Bulgaria 5). The countries varied in the number of STI tests (range: 6071–298645), positivity rate (range: 2–13%), patient characteristics and sexual behaviour: 75% of all women with an STI in Austria were sexworkers, compared to 5% and 8% in Bulgaria and Romania. 34% of all men with an STI in Slovakia had sex with men, compared to 4% in Romania. STI patients, especially women had a migration background in 79% in Austria, but less than 7% in the other three countries. Casual partners were the presumed cause of infection in the majority of MSM in all countries, whereas condom use in the last 6 months with these partners varied significantly between the 4 countries.

Conclusions Although not representative, sentinel surveillance gathers useful information on groups most at risk and can be compared between countries when using the same instruments. Legal and social issues can hinder disclosure of sexual preferences and practices and hamper targeted prevention. Enhancement of condom use with casual partners in MSM seems to be crucial, particularly in the East.
Results 112 HIV-infected women were enrolled, of whom 52 non-pregnant and 60 pregnant. In this population, mean age was 32.3 years (SD = 8.2), 62.5% had a previous history of sexually transmitted diseases, 46.4% began sex life with 15 years or less, 33.1% reported having less than 3 sexual partners throughout life, 45.8% had undetectable HIV viral load. We found a prevalence of 5.4% of Chlamydia trachomatis infection in HIV-infected women followed. There was an association of CT with the presence of pregnancy (10.0% versus 0.0%; p = 0.019), HIV viral load > 10,000 copies (p < 0.001) and the mean time of HIV diagnosis (21.0 versus 69.2 months; p = 0.032). We found no association with other risk factors studied (ethnicity, marital status, education, use of alcohol and drugs, CD4+ T Lymphocyte count).

Conclusion Early access to diagnosis and treatment of infection by HIV and Chlamydia trachomatis is an important preventive action. In pregnant women infected with HIV, the prevalence of Chlamydia appears to be greater and this is a period where treatment can improve maternal and neonatal outcome.

**References**

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Background Little is known on the natural history of extragenital Chlamydia trachomatis (Ct) and Neisseria gonorrhoeae (Ng). More insight in the natural history of extragenital Ct and Ng could influence standard operating procedures in screening facilities as such STD clinics. We evaluated proportions of natural clearance of Ct and Ng in genital and extragenital samples.

Methods We included self collected Ct and/or Ng positive genital (urine and cervicovaginal) and extragenital (anorectal and oropharyngeal) samples from STD clinic attendees [April 2011-December 2012]. Data on demographics and sexual behaviour were collected in an electronic patient file at initial testing. At follow-up for treatment, subjects were retested prior to treatment at the same anatomic site(s) as initial testing and provided an additional questionnaire on sexual behaviour since initial testing. Natural clearance rates of Ct and Ng were compared between anatomic sites. Data on the first 238 individuals were compared between anatomic sites. Data on the first 238 individuals (299 samples) are presented, enrollment is ongoing.

Results There were 102 women using hormonal contraceptive methods who participated in the study with mean age of 31.92 years (SD = 8.33, range = 16 –55). The mean age of sexual debut of participants was 19.5 years. The most common STI diagnosed was Vaginal candidiasis (22.5%) while others were bacterial vaginosis (21.6%), HIV (11.8%), Trichomoniasis (11.8%), Chlamydia cervicitis (8.8%), syphilis (5.9%), genital warts (6.9%) and gonorrhoea (2.9%). Younger age of sexual debut influenced the decision of selecting various forms of hormonal contraceptives especially the emergence of oral contraceptive forms (P = 0.043). A total of 169(93.9%) of the HIV sero-positive were CMV IgM positive. Age of Participants (p = 0.019, 4.2(1.0–13.2))

Conclusions Women seeking contraception to prevent unintended pregnancy are as much in need of education about prevention of STIs. The study found that younger age, numbers sexual partners, and use of hormonal contraceptives could increase the risk of acquiring trichomonas infection.

**S A Fayemiwo, A A Fatiregun, R A Bakare. College of Medicine, University of Ibadan, Ibadan., Ibadan, Nigeria**

Background Most women who acquire HIV and other sexually transmitted infections (STIs) are in their child bearing years and are current or potential users of contraceptive methods. The study was undertaken to provide information on the association between the hormonal contraceptive methods and STIs among women attending Family Planning clinics, University College Hospital, Ibadan, Nigeria.

Methods It was a cross-sectional study in a population of women using hormonal contraceptive methods attending Family Planning clinics. Detailed medical history, Endocervical and high vaginal swabs were collected from the women to establish diagnosis after clinical examination and informed consent. Aliquots of sera from venous blood samples of the women were tested for antibodies to HIV-1/2 and RPR. Data was analysed using SPSS for widows’ version 15.0.

Results There were 102 women using hormonal contraceptive methods who participated in the study with mean age of 31.92 years (SD = 8.33, range = 16 –55). The mean age of sexual debut of participants was 19.5 years. The most common STI diagnosed was Vaginal candidiasis (22.5%) while others were bacterial vaginosis (21.6%), HIV (11.8%), Trichomoniasis (11.8%), Chlamydia cervicitis (8.8%), syphilis (5.9%), genital warts (6.9%) and gonorrhoea (2.9%). Younger age of sexual debut influenced the decision of selecting various forms of hormonal contraceptives especially the emergence of oral contraceptive forms (P = 0.043). A total of 169(93.9%) of the HIV sero-positive were CMV IgM positive. Age of Participants (p = 0.019, 4.2(1.0–13.2))

Conclusions Women seeking contraception to prevent unintended pregnancy are as much in need of education about prevention of STIs. The study found that younger age, numbers sexual partners, and use of hormonal contraceptives could increase the risk of acquiring trichomonas infection.

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Background Cytomegalovirus (CMV) is one of the commonest viral opportunistic infections in persons with Acquired Immune Deficiency Syndrome (AIDS). In AIDS patients, progressive loss of immune function, and in particular, loss of cell mediated immunity, permits CMV reactivation and replication. This study aimed to evaluate the prevalence of seropositivity for CMV IgG and IgM among HIV sero-positive patients in Ilorin, Nigeria.

Methodology Sera obtained from 180 HIV sero-positive individuals and 180 HIV sero-negative blood donors participants were assayed for CMV IgG/IgM using Enzyme Linked Immunosorbent Assay (ELISA). The CD4 cell counts were also done. A semi-structured questionnaire was used to obtain information on the risk factors for CMV/HIV co-infection.

Result A total of 169(93.9%) of the HIV sero-positive were CMV IgG positive while, 174(96.7%) of the control were also CMV IgG positive. Among the HIV sero-positive, 20 (11.1%) were CMV IgM antibody positive, while 4(2.2%) of the HIV sero-negative control group were CMV IgM positive. Age of Participants (p = 0.000), number of sexual partners (p=0.000) and CD4 cell counts (p = 0.000) were significantly related to CMV IgM sero-positivity. However the use of HAART (p = 0.777), history of blood transfusion (p = 0.837)