Background

Register and internet-based Chlamydia Screening Implementation (CSI) was introduced in the Netherlands to detect and treat asymptomatic infections and to limit ongoing transmission through annual testing and treatment of Chlamydia trachomatis (Ct) in young people. This population-based screening may be compromised by addressing individuals who are already covered by regular care like general practitioners and STD clinics. We study, in a timeframe of five years, overlap between CSI participation and attendance of major services offering Ct screening services to assess whether CSI reached additional patients.

Methods

Data included all Ct tests performed in subjects aged 16–29 years in Eastern South Limburg in the Netherlands (population 16–29 years: 42,000) between 2006 and 2010 by CSI, regional STD clinic, general practitioners (GPs), and specialists (mainly gynaecologists) as reported by the testing laboratory. Data were matched between testing agencies, with complete certainty (STD clinic) (name, date of birth) and with a certainty range (part of the name, month and year of birth). Maastricht University’s ethical committee approved the study. Analyses were restricted to subjects tested (at least) by CSI.

Results

In CSI, 4477 (82.9%) subjects were first-time testers, others were previously tested by the STD clinic (3.5%, n = 190); GPs (6.4%, n = 552), specialists (3.6%, n = 197) or multiple providers (3.4%, n = 183). Compared to persons previously tested by the STD clinic/GPs/specialists, first time testers were younger (mean age 23y vs. 24y, P < 0.001), and more often were heterosexual men compared to women (29.8% vs. 13.6%, P < 0.001). Symptom-rate was also similar (2.5% vs. 3.3%, P = 0.76). Symptom-rate was also similar (2.5% vs. 3.3%, p = 0.32).

Conclusions

Chlamydia screening addresses young individuals, including heterosexual men, hidden to current care with similar Ct prevalence and adds to the existing regular care.

Background

Chlamydia trachomatis (Ct) reporting rates from sexually transmitted infection (STI) clinics and general practitioners have shown a rising trend in the Netherlands. It is unknown to what extent this reflects increased Ct transmission or improved case-finding. To achieve more insight into the dynamics of the Ct epidemic, we explored the Ct IgG seroprevalence (marker of past Ct infection) in the general population of the Netherlands in 1996 and 2007.

Methods

From two independent population-based studies in 1996 and 2007, serum samples were drawn, from 650 men and 1,000 women per study. Participants completed a questionnaire covering demographic information and sexual risk factors. Serum antibodies were analysed using Medac Ct IgG ELISA test. Multivariate logistic regression analyses explored changes in, and determinants of Ct IgG seroprevalence.

Results

The Ct IgG seroprevalence was higher in women than in men in 1996 (11.3% vs 5.2%), but this difference had diminished in 2007 (8.4% vs 6.9%). Among women aged 25–40 years, the seroprevalence was significantly lower (OR 0.6 [0.4–0.8]) in 2007 than in 1996, whereas the seroprevalence among women aged 15–24 years and men in both age groups was slightly higher in 2007, though not significantly. Determinants of seropositivity were female gender (OR 1.7 [1.3–2.0]), known history of Ct infection (OR: 3.4 [1.7–6.8]), 25–40 years old (OR 1.6 [1.1–2.4]), non-western ethnicity (OR: 1.8 [1.1–3.2]) and ≥ 2 recent sexual partners (OR: 2.2 [1.4–3.7]).

Conclusion

Ct IgG seropositivity was associated with known STI risk factors. Our results suggest that the proportion of individuals in the population who have had a Ct infection did not increase between 1996 and 2007. The decrease in seroprevalence among women aged 25–40 years between 1996 and 2007 may indicate changes in Ct transmission due to a more pro-active ‘test and treat’ policy.
Results Preliminary analyses suggest that: (1) the estimated prevalence of undiagnosed infections is elevated among Black respondents living in census tracts with high levels of median income; (2) the estimated prevalence of diagnosed infections is elevated among Black respondents living in census tracts with low levels of median income; (3) the estimated prevalence of undiagnosed infections among non-Blacks is highest among non-Blacks living in Census tracts with more than 80% Black residents; (4) the estimated prevalence of undiagnosed infection among Black women has a curvilinear relationship with the percentage of residents in a Census tract who are Black. (Higher infection prevalences are found in Census tracts with lower and higher proportions of Black residents.)

Conclusion These results invite provocative conclusions. It appears, for example, that inadequate screening resources may be targeted on Black respondents residing in wealthier neighborhoods resulting in an elevated prevalence of undiagnosed infection in this subpopulation. A rigorous examination of this and related preliminary results will be presented at the conference.

Background The transgender population is highly affected by STI and HIV epidemic, with high stigma and social discrimination. In Paraguay there is a lack of information concerning HIV and syphilis prevalence in this population. Generally, data on this population is mixed with that of men who have sex with men (MSM). It is estimated there are 421 transgender citizens throughout the country.

Methods Cross sectional observational study at subnational level, that included a survey and linked confidential serological tests from August to September 2011. HIV and syphilis were screened with rapid tests. HIV was confirmed with Western Blot and syphilis with TPHA for those reactive. The study population was people of male sex at birth that self-identify as females, with or without modification of their body and clothing according to said identity. A mapping of transgender was carried out, and subsequently the study was offered to all mapped people in the geographical areas of Capital, Itapúa, Caaguazú, Paraná and Amambay.

Results 311 transgender participated in the study, 257 agreed to HIV testing and 247 to syphilis testing. HIV and syphilis prevalence was 27% (IC95% 21–32) and 12% (IC95% 8–16) respectively. HIV/syphilis co-infection occurred in 6% of cases. 89% were sexual workers.

Conclusions HIV prevalence is high, similar to other Latin American countries. The prevalence of syphilis and syphilis/HIV co-infection is high. The high prevalence of non-injectable drug use implies the need for changing prevention strategies.

Background The Nnamdi Azikiwe University Teaching Hospital (NAUTH) Nnewi is a centre for free laboratory and x-ray investigations, management of tuberculosis and HIV infection in the South Eastern Nigeria.

Method The authors conducted a retrospective study using the medical records of patients aimed at determining the prevalence of HIV infection in Tuberculosis (TB) patients attending Directly Observed Treatment Short-course (DOTS) services between April 2008 and December 2010. Pattern of TB/HIV co-infection rate over time was also analysed.

Result The study showed a high prevalence of HIV among TB patients (29.9%). Smear Positive (SPT) was the most frequent (60.6%) form of TB diagnosis. Extra Pulmonary Tuberculosis (EPT) and Smeart Negative Tuberculosis (SNT) were frequently associated with HIV co-infection (60.9%) and (62.9%) respectively. HIV prevalence and TB was higher in females (15.6%) than males (14.1%) though not statistically significant.

Conclusion The co-infection rate was highest among individuals aged 27–34 years (10.9%) followed by 35–42 years (8.1%) and least among 60 years and above (0.6%). The increase in TB/HIV co-infection rate was monotonic over time with a strong trend among females aged 27–34 years (25.7%, 21.6% and 21.3%) for 2008, 2009 and 2010 respectively.