Supplementary files

* Supplementary table I. Differences in pregnancy rate since sexual debut and time to pregnancy between chlamydia negative, positive and positive only by serology women.
* Supplementary Table 2. Differences in pregnancy rate since sexual debut and time to pregnancy between chlamydia negative, positive by CSI-NAAT, positive by chlamydia IgG presences or positive by self-reported infection.
* Supplementary figure 1. Forest plot of various sensitivity analyses of the risk for pregnancy following sexual debut between chlamydia positive and chlamydia negative women in hazard ratio’s and 95%CI. Diamond shape = overall aHR. aHR = adjusted hazard ratio. CI = confidence interval.
* Supplementary figure 2 Forest plot of various sensitivity analyses of the chance for a pregnancy between chlamydia positive and chlamydia negative women with a pregnancy wish in hazard ratio’s and 95%CI. Diamond shape = overall aHR. aHR = hazard ratio. CI = confidence interval.

**Supplementary Table 1. Differences in pregnancy rate since sexual debut and time to pregnancy between chlamydia negative, positive and positive only by serology women**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | |  | Adjusted Hazard Ratio | | |
| Pregnancies | | | aHR | 95%CI | p-value |
| 1. **Years following sexual debut 0-6** | | |  |  |  |
|  | Chlamydia negative | | 1 |  |  |
|  | Chlamydia positive | | 1.52 | 1.25-1.86 | <0.01 |
|  | Chlamydia seropositive only | | 1.62 | 0.68-3.85 | 0.26 |
| 1. **Years following sexual debut 7-10** | | |  |  |  |
|  | Chlamydia negative | | 1 |  |  |
|  | Chlamydia positive | | 1.48 | 1.21-1.73 | <0.01 |
|  | Chlamydia seropositive only | | 1.08 | 0.69-1.67 | 0.75 |
| 1. **Years following sexual debut 11-13** | | |  |  |  |
|  | Chlamydia negative | | 1 |  |  |
|  | Chlamydia positive | | 0.95 | 0.81-1.10 | 0.49 |
|  | Chlamydia seropositive only | | 0.83 | 0.59-1.18 | 0.31 |
| 1. **Years following sexual debut 13-23** | | |  |  |  |
|  | Chlamydia negative | | 1 |  |  |
|  | Chlamydia positive | | 1.02 | 0.92-1.13 | 0.72 |
|  | Chlamydia seropositive only | | 0.88 | 0.69-1.11 | 0.28 |
| **Time to pregnancy** | | |  |  |  |
| 1. **Age 16-29 years** | | |  |  |  |
|  | Chlamydia negative | | 1 |  |  |
|  | Chlamydia positive | | 0.77 | 0.65-0.91 | <0.01 |
|  | Chlamydia seropositive only | | 1.16 | 0.69-1.94 | 0.57 |
| 1. **Age 30-32 years** | | |  |  |  |
|  | Chlamydia negative | | 1 |  |  |
|  | Chlamydia positive | | 0.76 | 0.60-0.95 | 0.02 |
|  | Chlamydia seropositive only | | 0.67 | 0.41-1.10 | 0.11 |
| 1. **Age 33-39 years** | | |  |  |  |
|  | Chlamydia negative | | 1 |  |  |
|  | Chlamydia positive | | 1.10 | 0.90-1.33 | 0.36 |
|  | Chlamydia seropositive only | | 0.93 | 0.59-1.44 | 0.73 |

Chlamydia positive was defined as a positive NAAT-test outcome in the CSI study (CSI-NAAT), the presence of chlamydia IgG or a self-reported chlamydia infection. Chlamydia seropositive only was defined as being positive for chlamydia IgG, but not by self-report or by NAAT test outcome in the CSI study. For these analyses, multiple imputations were used to estimate time of first chlamydia infection in women without a known first year of chlamydia infection. Models 1-4 were adjusted for age, education level, migration background and number of lifetime partners. Models 5-7 were adjusted for age at first planned pregnancy/age at trying to become pregnant and migration background. HR = Hazard Ratio. CI = Confidence Interval. aHR = adjusted Hazard Ratio.

**Supplementary Table 2. Differences in pregnancy rate since sexual debut and time to pregnancy between chlamydia negative, positive by CSI-NAAT, positive by chlamydia IgG presences or positive by self-reported infection.**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | Adjusted Hazard Ratio | | |  | | Adjusted Hazard Ratio | | |
| Pregnancies | | aHR | 95%CI | P-value |  | | aHR | 95%CI | P-value |
| Years following sexual debut 0-6 | |  |  |  |  | |  |  |  |
|  | Chlamydia negative | 1 |  |  |  | Chlamydia negative | 1 |  |  |
|  | Chlamydia positive | 1.54 | 1.26-1.89 | <0.01 |  | CSI-NAAT+ | 1.36 | 0.99-1.87 | 0.06 |
|  | |  |  |  |  | Ct IgG + | 1.90 | 1.23-2.93 | <0.01 |
|  | |  |  |  |  | Self-reported + | 1.50 | 1.17-1.91 | <0.01 |
| Years following sexual debut 7-10 | |  |  |  |  | |  |  |  |
|  | Chlamydia negative | 1 |  |  |  | Chlamydia negative | 1 |  |  |
|  | Chlamydia positive | 1.42 | 1.22-1.66 | <0.01 |  | CSI-NAAT+ | 1.21 | 0.92-1.60 | 0.18 |
|  | |  |  |  |  | Ct IgG + | 1.44 | 1.10-1.90 | <0.01 |
|  | |  |  |  |  | Self-reported + | 1.52 | 1.26-1.84 | <0.01 |
| Years following sexual debut 11-13 | |  |  |  |  | |  |  |  |
|  | Chlamydia negative | 1 |  |  |  | Chlamydia negative | 1 |  |  |
|  | Chlamydia positive | 0.93 | 0.80-1.07 | 0.32 |  | CSI-NAAT+ | 0.99 | 0.76-1.29 | 0.94 |
|  | |  |  |  |  | Ct IgG + | 0.88 | 0.69-1.13 | 0.32 |
|  | |  |  |  |  | Self-reported + | 0.93 | 0.77-1.13 | 0.48 |
| Years following sexual debut 13-23 | |  |  |  |  | |  |  |  |
|  | Chlamydia negative | 1 |  |  |  | Chlamydia negative | 1 |  |  |
|  | Chlamydia positive | 0.99 | 0.89-1.10 | 0.81 |  | CSI-NAAT+ | 0.95 | 0.76-1.18 | 0.64 |
|  | |  |  |  |  | Ct IgG + | 0.81 | 0.68-0.96 | 0.01 |
|  | |  |  |  |  | Self-reported + | 1.13 | 1.00-1.28 | 0.05 |
| Time to pregnancy | |  |  |  |  | |  |  |  |
| Age 16-29 years | |  |  |  |  | |  |  |  |
|  | Chlamydia negative | 1 |  |  |  | Chlamydia negative | 1 |  |  |
|  | Chlamydia positive | 0.79 | 0.67-0.94 | <0.01 |  | CSI-NAAT+ | 0.64 | 0.47-0.88 | <0.01 |
|  | |  |  |  |  | Ct IgG + | 0.82 | 0.61-1.11 | 0.21 |
|  | |  |  |  |  | Self-reported + | 0.87 | 0.70-1.08 | 0.21 |
| Age 30-32 years | |  |  |  |  | |  |  |  |
|  | Chlamydia negative | 1 |  |  |  | Chlamydia negative | 1 |  |  |
|  | Chlamydia positive | 0.74 | 0.60-0.92 | <0.01 |  | CSI-NAAT+ | 0.86 | 0.55-1.35 | 0.51 |
|  | |  |  |  |  | Ct IgG + | 0.71 | 0.48-1.04 | 0.08 |
|  | |  |  |  |  | Self-reported + | 0.73 | 0.55-0.95 | 0.02 |
| Age 33-39 years | |  |  |  |  | |  |  |  |
|  | Chlamydia negative | 1 |  |  |  | Chlamydia negative | 1 |  |  |
|  | Chlamydia positive | 1.07 | 0.89-1.28 | 0.49 |  | CSI-NAAT+ | 1.32 | 0.82-2.12 | 0.26 |
|  | |  |  |  |  | Ct IgG + | 0.88 | 0.64-1.22 | 0.45 |
|  | |  |  |  |  | Self-reported + | 1.13 | 0.91-1.42 | 0.27 |

CSI-NAAT+ (positive) was defined as a positive NAAT-test outcome in the CSI study (CSI-NAAT) irrespectively of other positive chlamydia outcomes. Ct IgG+ (Chlamydia trachomatis – Immunoglobulin G positive) was defined as the presence of chlamydia IgG, unless a participant was already positive by CSI-NAAT. Self-reported chlamydia positive was defined as a self-reported infection without a positive CSI-NAAT or presence of chlamydia IgG. For these analyses, multiple imputations were used to estimate time of first chlamydia infection in women without a known first year of chlamydia infection. Pregnancy models (first four) were adjusted for age, education level, migration background and number of lifetime partners. Time to pregnancy models (last three) were adjusted for age at first planned pregnancy/age at trying to become pregnant and migration background. HR = Hazard Ratio. CI = Confidence Interval. aHR = adjusted Hazard Ratio.