[SUPPLEMENTARY WEB APPENDIX] STI risk perception in the British population and how it relates to sexual behaviour and STI healthcare use: findings from a cross-sectional survey (Natsal-3)

## Supplementary Table 1: Self-perceived risk of STIs (excluding HIV), by age group and sex (sexually active men and women aged 16-74 years)

|  | Age Group |  |  |  |  |  |  |  |  |  |  |  |  |  | Total |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 16-19 |  | 20-24 |  | 25-34 |  | 35-44 |  | 45-54 |  | 55-64 |  | 65-74 |  |  |  |
|  | \% | 95\% CI | \% | 95\% CI | \% | 95\% CI | \% | 95\% CI | \% | 95\% CI | \% | 95\% CI | \% | 95\% CI | \% | 95\% CI |
| Men |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Greatly at risk | 1.6 | [0.8,3.3] | 2.4 | [1.5,4.0] | 0.9 | [0.5,1.6] | 0.7 | [0.3,1.6] | 0.8 | [0.3,2.0] | 0.9 | [0.3,2.4] | 0.5 | [0.1,2.0] | 1.0 | [0.7,1.3] |
| Quite a lot | 6.6 | [4.7,9.2] | 7.7 | [5.7,10.2] | 4.2 | [3.3,5.4] | 2.1 | [1.3,3.5] | 0.8 | [0.4,1.6] | 1.7 | [0.8,3.5] | 0.4 | [0.1,1.7] | 2.9 | [2.5,3.4] |
| Not very much | $48.3$ | [43.4,53.2] | $42.1$ | [38.2,46.1] | $29.3$ | [26.6,32.2] | 21.2 | [18.2,24.6] | 18.4 | [15.3,21.9] | 15.4 | [12.4,18.9] | 7.3 | [4.9,10.6] | 24.0 | [22.6,25.4] |
| Not at all at risk | 43.5 | [38.8,48.4] | 47.8 | [43.9,51.7] | 65.6 | [62.6,68.5] | 75.9 | [72.4,79.2] | 80.0 | [76.4,83.1] | 82.0 | [78.3,85.2] | 91.9 | [88.5,94.4] | 72.1 | [70.6,73.5] |
| Denominators (unwt, wt) | 542 | 349 | 751 | 596 | 1379 | 1241 | 719 | 1299 | 638 | 1299 | 519 | 861 | 328 | 473 | 4876 | 6022 |
| Women |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Greatly at risk | $1.0$ | [0.4,2.5] | 1.3 | [0.6,2.6] | 0.9 | [0.5,1.6] | 0.5 | [0.2,1.1] | 1.1 | [0.5,2.1] | 0.2 | [0.0,1.4] | 0.0 | 0.0 | 0.7 | [0.5,1.0] |
| Quite a lot | 5.5 | [3.9,7.7] | 5.8 | [4.1,8.2] | 2.5 | [1.9,3.3] | 1.1 | [0.7,1.8] | 1.0 | [0.5,2.1] | 0.9 | [0.3,2.7] | 0.4 | [0.1,3.0] | 2.1 | [1.7,2.5] |
| Not very much | 40.3 | [36.1,44.6] | 30.7 | [27.7,34.0] | 23.1 | [21.1,25.1] | 15.6 | [13.4,18.1] | 13.7 | [11.5,16.3] | 9.5 | [7.3,12.1] | 5.8 | [3.4,9.5] | 18.4 | [17.4,19.4] |
| Not at all at risk | 53.2 | [48.9,57.6] | 62.1 | [58.7,65.4] | 73.5 | [71.4,75.5] | 82.8 | [80.3,85.1] | 84.2 | [81.5,86.6] | 89.4 | [86.5,91.7] | 93.8 | [90.0,96.2] | 78.8 | [77.7,79.9] |
| Denominators (unwt, wt) | 648 | 332 | 1023 | 596 | 2240 | 1247 | 1055 | 1298 | 875 | 1193 | 575 | 762 | 286 | 362 | 6702 | 5791 |

Denominator: those aged 16-74 years reporting at least one sexual partner in the past year. unwt=unweighted denominators, wt=weighted denominators

## Supplementary table 2: Factors associated with rating oneself as not very much, or greatly/quite a lot at risk of STIs versus not at all at risk (multinomial regression)



| Concurrent partnerships, past year ${ }^{2}$ |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| No | 77.2\% | [75.8\%,78.7\%] | 20.1\% | [18.7\%,21.5\%] | 1.00 |  | 2.7\% | [2.1\%,3.4\%] | 1.00 |  | 4180 | 3024 |
| Yes | 34.0\% | [28.5\%,40.0\%] | 51.5\% | [ $45.3 \%, 57.6 \%$ ] | 4.83 | (3.67-6.35) | 14.5\% | [10.1\%,20.5\%] | 9.33 | (5.62-15.51) | 378 | 207 |
| Prevalent $\mathrm{STI}^{3}$ detected in urine |  |  |  |  |  |  |  |  |  |  |  |  |
| No | 73.4\% | [71.3\%,75.5\%] | 22.7\% | [20.7\%,24.7\%] | 1.00 |  | 3.9\% | [3.1\%,4.9\%] | 1.00 |  | 2314 | 1989 |
| Yes | 57.4\% | [45.5\%,68.6\%] | 30.4\% | [20.9\%,42.0\%] | 1.37 | (0.78-2.41) | 12.2\% | [6.6\%,21.4\%] | 2.96 | (1.46-6.02) | 112 | 64 |

## Supplementary table 2 footnotes:

Denominator: those aged 16-44 who reported at least one partner in past year. unwt=unweighted denominators, wt=weighted denominators
aRRR=relative risk ratio (adjusted for age), compared to rating oneself as 'not at all at risk'.
${ }^{1}$ Defined as reported no condom used at first occasion of sex with a new partner and/or sex with $2+$ partners and no condom used with any partner. Excludes those who only had oral sex in the past year
${ }^{2}$ Based on up to 3 most recent partners in the past year.
${ }^{3}$ Chlamydia trachomatis, Neisseria gonorrhoeae, Trichomonas vaginalis, or Mycoplasma genitalium.Denominators for prevalent STI in urine are smaller than for behavioural variables as urine was only requested from a sub-sample of participants
Missing data for self-reported behaviours was as follows: $5+$ partners past year $n=48$, unsafe sex past year $n=60$, number of partners without a condom past year $n=123$, same-sex partner(s) past year $\mathrm{n}=1$, heterosexual anal sex past year $\mathrm{n}=15$, concurrency past year $\mathrm{n}=750$.

Supplementary Table 3: Reporting of STI healthcare-use, chlamydia testing, sexual health clinic attendance, each in the past year by age group and sex (sexually active men and women aged 16-44 years)

|  | Age Group |  |  |  |  |  |  |  | Total |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 16-19 |  | 20-24 |  | 25-34 |  | 35-44 |  |  |  |
|  | \% | 95\% CI | \% | 95\% CI | \% | 95\% CI | \% | 95\% CI | \% | 95\% CI |
| Men |  |  |  |  |  |  |  |  |  |  |
| STI healthcare-use ${ }^{1}$ | 48.0 | [43.3,52.7] | 34.5 | [30.9,38.3] | 18.1 | [16.0,20.4] | 5.4 | [4.0,7.0] | 19.2 | [17.8,20.6] |
| Sexual health clinic attendance | 19.6 | [16.1,23.6] | 16.0 | [13.3,19.1] | 7.0 | [5.8,8.5] | 1.9 | [1.1,3.1] | 7.9 | [7.0,8.8] |
| Chlamydia testing | 42.5 | [37.8,47.3] | 32.2 | [28.7,35.9] | 15.1 | [13.1,17.3] | 4.3 | [3.1,6.0] | 16.7 | [15.5,18.1] |
| Denominators (unwt, wt) | 542 | 349 | 751 | 596 | 1379 | 1241 | 719 | 1299 | 3391 | 3485 |
| Women |  |  |  |  |  |  |  |  |  |  |
| STI healthcare-use ${ }^{1}$ | 62.0 | [57.8,66.0] | 56.8 | [53.3,60.3] | 25.5 | [23.5,27.6] | 10.9 | [9.1,13.0] | 28.9 | [27.5,30.3] |
| Sexual health clinic attendance | 26.7 | [23.2,30.5] | 21.0 | [18.2,24.2] | 7.4 | [6.3,8.7] | 2.3 | [1.5,3.5] | 9.6 | [8.8,10.6] |
| Chlamydia testing | 57.8 | [53.7,61.9] | 54.1 | [50.5,57.6] | 23.7 | [21.7,25.8] | 9.2 | [7.6,11.1] | 26.8 | [25.4,28.2] |
| Denominators (unwt, wt) | 648 | 332 | 1023 | 596 | 2240 | 1247 | 1055 | 1298 | 4966 | 3473 |

## Supplementary table 3 footnotes:

Denominator: those aged 16-44 who reported at least one partner in past year. unwt=unweighted denominators, wt=weighted denominators
${ }^{1}$ Defined as reporting sexual health clinic attendance and/or chlamydia testing in the past year

