Supplementary Material

Frequency and determinants of consistent STI/HIV testing among men who have sex with men testing at STI outpatient clinics in the Netherlands: A longitudinal study

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Table S1 Proportion and determinants of consistent testing compared to single testing among MSM aged 14-89 years, who tested at STI clinics in the Netherlands between June 1st 2014 and December 31st 2015, using baseline consultations.

| Region of STI clinic + | Single testers n | Consistent (6-monthly) testers n | OR | 95% CI | Adjusted OR | 95% CI |
|------------------------|------------------|----------------------------------|----|--------|-------------|--------|
| Total                  | 9,668            | 3,516                            |    |        |             |        |
| Age (years)            |                  |                                  |    |        |             |        |
| 14-26                  | 2,746            | 760                              | 1  |        |             |        |
| 27-35                  | 2,249            | 804                              | 1.29 | (1.15-1.45) | 1.04 | (0.91-1.18) |
| 36-47                  | 2,335            | 1,053                            | 1.63 | (1.46-1.81) | 1.15* | (1.01-1.30) |
| 48+                    | 2,338            | 899                              | 1.39 | (1.24-1.55) | 1.00 | (0.88-1.14) |
| Reported sexual orientation |             |                                  |    |        |             |        |
| Homosexual             | 7,410            | 3,115                            | 1  |        |             |        |
| Bisexual               | 2,258            | 401                              | 0.42 | (0.38-0.47) | 0.44** | (0.38-0.50) |
| Follow-up time         |                  |                                  |    |        |             |        |
| <= 365 days            | 4,455            | 1,314                            | 1  |        |             |        |
| > 365 days             | 5,213            | 2,202                            | 1.43 | (1.32-1.55) | 1.06 | (0.97-1.17) |
| Socio-economic status  |                  |                                  |    |        |             |        |
| High                   | 3,215            | 1,236                            | 1  |        |             |        |
| Medium                 | 2,680            | 982                              | 0.95 | (0.86-1.05) | 1.05 | (0.94-1.17) |
| Low                    | 2,882            | 1,054                            | 0.95 | (0.86-1.05) | 1.03 | (0.93-1.15) |
| Missing values          | 891              | 244                              | 0.71 | (0.61-0.83) | 0.68** | (0.57-0.81) |
| Education level        |                  |                                  |    |        |             |        |
| High                   | 4,858            | 1,372                            | 1  |        |             |        |
| Low                    | 2,517            | 814                              | 1.15 | (1.04-1.26) | 1.18* | (1.06-1.32) |
| Missing values          | 2,293            | 1,330                            | 2.05 | (1.88-2.25) | 1.75** | (1.57-1.95) |
| Ethnicity              |                  |                                  |    |        |             |        |
| Dutch                  | 7,009            | 2,466                            | 1  |        |             |        |
| Western non-Dutch      | 852              | 292                              | 0.97 | (0.85-1.12) | 0.83* | (0.71-0.97) |
| Non-Western            | 1,794            | 754                              | 1.19 | (1.08-1.32) | 1.19* | (1.07-1.33) |
| Missing values          | 13               | 65.0                             | 4  |        |             |        |
| Number of sex partners in past 6 months | |                                  |    |        |             |        |
| 0-2                    | 2,789            | 509                              | 1  |        |             |        |
| 3-4                    | 2,523            | 711                              | 1.54 | (1.36-1.75) | 1.64** | (1.43-1.88) |
| 5-9                    | 2,141            | 848                              | 2.17 | (1.92-2.46) | 2.20** | (1.92-2.51) |
| 10+                    | 1,981            | 1,330                            | 3.68 | (3.27-4.14) | 3.50** | (3.07-3.99) |
| Missing values          | 234              | 44.3                             | 118 | 22.4 |             |        |
|                                    | No       | Yes     | Missing values | Odds Ratio (95% CI)                  | P-value   |
|------------------------------------|----------|---------|----------------|-------------------------------------|-----------|
| Condom use at last contact         |          |         |                |                                     |           |
| No                                 | 5,701    | 3,442   | 525           | 1.0 (1.0-1.0)                        |           |
| Yes                                | 1,863    | 2,145   | 668           | 1.19 (1.1-1.22)                      | 0.001     |
| Missing values                     | 17.6     | 20.8    | 18.3          |                                     |           |
| Received partner notification      |          |         |                |                                     |           |
| No                                 | 7,424    | 2,196   | 48            | 1.19 (1.1-1.43)                      | 0.001     |
| Yes                                | 2,741    | 2,665   | 66.3          | 0.83 (0.8-1.04)                      | 0.001     |
| Missing values                     | 19.0     | 17.5    | 9.9           |                                     |           |
| Reported STI symptoms              |          |         |                |                                     |           |
| No                                 | 7,068    | 2,533   | 67            | 1.0 (0.8-1.0)                        |           |
| Yes                                | 2,665    | 841     | 66.3          | 0.74 (0.6-0.86)                      | 0.001     |
| Missing values                     | 19.4     | 17.5    | 9.9           |                                     |           |
| Known HIV positive                 |          |         |                |                                     |           |
| No                                 | 8,689    | 867     | 112           | 1.0 (0.9-1.1)                        |           |
| Yes                                | 2,897    | 610     | 73.2          | 1.30 (1.1-1.5)                       | 0.001     |
| Missing values                     | 17.8     | 27.5    | 9.9           |                                     |           |
| GO/CT/SYPH in past 2 years         |          |         |                |                                     |           |
| No                                 | 7,811    | 1,200   | 116           | 1.0 (0.9-1.1)                        |           |
| Yes                                | 2,395    | 1,005   | 67.6          | 2.33 (2.0-2.6)                       | 0.001     |
| Missing values                     | 17.0     | 28.0    | 11.9          |                                     |           |
| Commercial sex worker †            |          |         |                |                                     |           |
| No                                 | 9,364    | 188     | 116           | 1.0 (0.9-1.0)                        |           |
| Yes                                | 3,388    | 82      | 54.0          | 1.21 (0.9-1.5)                       | 0.001     |
| Missing values                     | 3,188    | 22.2    | 126           |                                     |           |
| Client of commercial sex worker †  |          |         |                |                                     |           |
| No                                 | 9,195    | 347     | 126           | 1.0 (0.9-1.0)                        |           |
| Yes                                | 3,402    | 75      | 56.7          | 0.58 (0.4-0.7)                       | 0.001     |
| Missing values                     | 19.0     | 14.0    | 39            |                                     |           |

† Not included in multivariable analysis due to small numbers
*
* P-value < 0.05 ** P-value < 0.001
OR, odds ratio; GO, gonorrhoea; CT, Chlamydia; SYPH, syphilis.