**Supplemental Digital Content 1**  for article ‘Impact of Home-Based HIV Testing Services on Progress Toward the UNAIDS 90-90-90 Targets in a Hyperendemic Area of South Africa’

**Table S1: Reasons for refusing HBHTS among participants enrolled in the second baseline HIPSS study (2015-2016)**

|  |  |  |  |
| --- | --- | --- | --- |
|  |  | **Self-reported HIV negative or unknown status ^** | **Undiagnosed HIV-positive#** |
| **Reasons for refusing HBHTS**  | **Men (n=1755)** | **Women (n=2001)** | **Men (n=240)** | **Women (n=550)** |
| ‘I know my status’ %(n) | 44.8(799) | 59.6(1206) | 27.7(79) | 45.4(260) |
| 'I am afraid to know' %(n) | 34.5(602) | 23.1(447) | 45.1(107) | 32.9(174) |
| 'I don't have time' %(n) | 7.6(123) | 3.4(79) | 8.2(17) | 5(32) |
| ‘I am not having sex’ %(n) | 6.2(115) | 6.6(119) | 3.2(8) | 2.2(9) |
| 'I have to get my partner’s permission' %(n) | 0.3(6) | 0.8(21) | 0.9(3) | 1.4(9) |
| Other  | 4.1(71) | 4.1(79) | 12.1(22) | 11(55) |
| Missing | 2.4(39) | 2.5(50) | 2.7(4) | 2.2(11) |

^Includes those who reported never having tested for HIV, those who refused to report an HIV status and those who self-reported having a negative or indeterminate result at their last HIV test. #All individuals who had a positive laboratory HIV result but who reported never having tested for HIV, refused to report an HIV status or self-reported having a negative or indeterminate result at their last HIV test.

**Supplemental Digital Content 2**  for article ‘The impact of home-based HIV testing services on progress towards the UNAIDS 90-90-90 targets in a hyperendemic area of South Africa’

**Table S2: Factors associated with uptake of HBHTS among undiagnosed HIV-positive participants enrolled in the second baseline HIPSS study (2015-2016)**

|  |  |  |
| --- | --- | --- |
|  | **Men (n=352)** | **Women (n=766)** |
|   | **HBHTS Uptake % (n)** | **RR** | **aRR^** | **95% CI** | **HBHTS Uptake % (n)** | **RR** | **aRR^** | **95% CI** |
| ***Demographics*** |  |  |  |  |  |  |  |  |
| **Age** |
| 15-24 | 37.1(22) | 1 | 1 |   | 32.5(72) | 1 | 1 |   |
| 25-34 | 32.5(55) | 0.88 | 0.85 | 0.56-1.30 | 28.2(82) | 0.87 | 0.89 | 0.65-1.21 |
| 35-49 | 31.6(35) | 0.85 | 0.74 | 0.43-1.28 | 32.8(62) | 1.01 | 0.96 | 0.68-1.35 |
| **Relationship status** |
| Single and always been | 31.7(16) | 1 | 1 |   | 33(42) | 1 | 1 |   |
| Single but had previous relationship | 32.9(87) | 1.14 | 1.15 | 0.55-2.40 | 30.2(163) | 1.10 | 1.01 | 0.60-1.71 |
| Married/in serious relationship | 37.5(9) | 0.96 | 1.06 | 0.64-1.75 | 33.2(11) | 1.10 | 1.05 | 0.77-1.45 |
| **Education** |
| Incomplete secondary  | 37.7(73) | 1 | 1 |   | 35.4(126) | 1 | 1 |   |
| Completed secondary  | 27.8(35) | 0.74 | 0.71 | 0.48-1.106 | 28(81) | 0.79 | 0.81 | 0.61-1.07 |
| Tertiary (Diploma/degree) | 21.3(4) | 0.56 | 0.55 | 0.23-1.34 | 16.9(9) | 0.48\* | 0.48\* | 0.27-0.87 |
| **Employment** |
| Employed | 30(43) | 1 | 1 |   | 28.3(42) | 1 | 1 |   |
| Student/School | 32.4(7) | 1.08 | 0.93 | 0.44-1.98 | 28.7(35) | 1.01 | 0.92 | 0.55-1.56 |
| Unemployed | 33.8(49) | 1.12 | 1.05 | 0.73-1.51 | 30.8(106) | 1.09 | 1.00 | 0.68-1.49 |
| Other# | 40.9(13) | 1.36 | 1.26 | 0.73-2.18 | 37.3(33) | 1.32 | 1.22 | 0.78-1.90 |
| **Income per capita per month in ZAR$** |
| <R500 | 33.6(31) | 1 | 1 |   | 31.6(84) | 1 | 1 |   |
| R500-R1000 | 39.3(41) | 1.17 | 1.20 | 0.82-1.75 | 37(69) | 1.17 | 1.24 | 0.93-1.65 |
| R1000-R2000 | 38(14) | 0.89 | 0.92 | 0.57-1.48 | 29.4(29) | 0.85 | 0.86 | 0.60-1.25 |
| >R2000 | 23.5(26) | 0.77 | 0.84 | 0.51-1.38 | 20.2(34) | 0.61 | 0.66 | 0.40-1.09 |
| **Distance to local clinic** |
| < 1 km | 30.9(34) | 1 | 1 |  | 25.5(56) | 1 | 1 |  |
| 1-2 km | 35(43) | 1.13 | 1.15 | 0.72-1.82 | 29.5(80) | 1.16 | 1.12 | 0.79-1.60 |
| > 2km | 32.9(35) | 1.06 | 1.08 | 0.69-1.69 | 36.5(80) | 1.43\* | 1.40 | 0.99-1.98 |
| **Have you received emotional support from family members in the last 12 months?** |
| No | 32(40) | 1 | 1 |  | 25.4(65) | 1 | 1 |  |
| Yes | 33.4(72) | 1.04 | 1.04 | 0.71-1.51 | 33.4(151) | 1.32 | 1.37\* | 1.04-1.80 |
|  |  |  |  |  |  |  |  |  |
| ***HIV Status and Risk*** |  |  |  |  |  |  |  |  |
| **How likely do you think you are to contract HIV in the future?** |
| Definitely/probably not | 27.1(37) | 1 | 1 |  | 25.1(77) | 1 | 1 |  |
| Definitely/probably | 39.6(72) | 1.46\* | 1.46\* | 1.01-2.10 | 37.7(133) | 1.50\* | 1.47\* | 1.11-1.94 |
| **I am not afraid of contracting HIV as there are effective drugs to treat it** |
| Agree | 34.6(29) | 1 | 1 |  | 42.4(88) | 1 | 1 |  |
| Partially agree | 30.4(5) | 0.88 | 0.96 | 0.40-2.32 | 24.1(13) | 0.57\* | 0.60 | 0.35-1.05 |
| Don't agree | 32.7(78) | 0.94 | 0.96 | 0.66-1.40 | 26.1(115) | 0.62\* | 0.63\* | 0.50-0.81 |
| **When did you last have an HIV test?** |
| < 1 year ago | 24.3(29) | 1 | 1 |  | 21.6(76) | 1 | 1 |  |
| >= 1 year ago | 35.1(49) | 1.45 | 1.32 | 0.83-2.11 | 36.5(106) | 1.69\* | 1.76\* | 1.32-2.35 |
| never | 40(34) | 1.64\* | 1.61\* | 1.01-2.56 | 44.7(34) | 2.06\* | 1.96\* | 1.33-2.88 |
| **CD4 count** |
| <350 | 30.5(45) | 1 | 1 |  | 33.8(71) | 1 | 1 |  |
| 350-500 | 37.8(30) | 1.24 | 1.27 | 0.851.90 | 28.1(41) | 0.83 | 0.86 | 0.60-1.22 |
| >500 | 32.3(37) | 1.06 | 1.08 | 0.72-1.64 | 29.9(104) | 0.89 | 0.90 | 0.68-1.20 |

^Adjusted for age, relationship status and education level. \*Significant at a 5% significance level. #Includes stay-at-home parents, those who are disabled or unable to work, and pensioners. $ZAR15 = US$1.