

Supplementary file 1. Survey weighted population profile of 2012 HSRC survey participants by sub-district in Ekurhuleni, South Africa.

| | Overall (N=1189) Proportion estimate (95% CI) | East (n=402) Proportion estimate (95% CI) | North (n=259) Proportion estimate (95% CI) | South (n=528) Proportion estimate (95% CI) | P-value |
|--|--|--|---|---|----------------|
| Mean age (years) | 37.6 (36.6-38.6) | 40.9 (36.7-45.1) | 38.8 (36.7-40.8) | 35.0 (34.2-35.8) | 0.003 |
| Gender | | | | | |
| Male | 48.8 (47.1-50.7) | 45.7 (44.9-46.6) | 49.6 (43.3-56.0) | 50.3 (48.4-52.3) | 0.004 |
| Female | 51.2 (49.3-53.0) | 54.3 (53.4-55.1) | 50.4 (44.0-56.7) | 49.9 (47.7-51.6) | |
| Race | | | | | |
| Black | 79.1 (71.3-85.1) | 77.9 (51.8-92.0) | 71.2 (61.0-79.7) | 83.7 (72.7-90.9) | 0.167 |
| Non-Black | 20.9 (14.9-28.6) | 22.1 (8.0-48.1) | 28.8 (20.3-39.0) | 16.3 (9.1-27.3) | |
| Relationship status | | | | | |
| Currently Married | 63.6 (62.4-64.8) | 61.5 (58.0-64.9) | 74.3 (73.0-75.5) | 59.8 (58.4-61.2) | <0.0001 |
| Previously Married | 12.1 (11.3-12.9) | 15.9 (13.5-18.7) | 7.4 (7.2-7.6) | 12.0 (10.9-13.3) | |
| Not Married | 24.3 (22.9-25.7) | 22.6 (18.0-27.9) | 18.3 (17.0-19.8) | 28.2 (26.5-29.9) | |
| Education level | | | | | |
| Primary school | 8.2 (7.3-9.2) | 11.4 (9.4-13.8) | 5.2 (4.3-6.2) | 7.8 (6.4-1.0) | 0.004 |
| Secondary school | 78.7 (77.1-80.3) | 83.0 (81.7-84.2) | 78.5 (71.9-83.9) | 76.6 (75.2-77.9) | |
| Post-secondary | 13.0 (11.3-15.0) | 5.6 (3.0-10.1) | 16.3 (11.6-22.5) | 15.4 (12.9-18.3) | |
| Employment status | | | | | |
| Unemployed n (%) | 45.9 (43.1-48.7) | 53.0 (51.6-54.4) | 46.3 (44.0-48.7) | 41.5 (36.1-47.0) | 0.0002 |
| Unemployed, student n (%) | 16.9 (15.8-18.1) | 14.6 (12.6-16.9) | 10.0 (9.9-10.2) | 21.6 (19.7-23.6) | |
| Employed n (%) | 37.2 (34.1-40.3) | 32.4 (30.5-34.3) | 43.6 (41.1-46.2) | 36.9 (31.0-43.3) | |
| Mean age at coital debut | 18.3 (18.1-18.6) | 18.4 (17.6-19.3) | 18.9 (18.4-19.5) | 18.0 (17.9-18.1) | 0.024 |
| Mean number of lifetime partners (IQR) | 4.87 (4.6-5.1) | 4.2 (3.2-5.3) | 4.7 (4.1-5.3) | 5.3 (5.1-5.6) | 0.024 |
| Condom use | | | | | |
| Yes n (%) | 26.4 (24.2-28.8) | 24.4 (20.4-28.9) | 19.4 (15.9-23.7) | 31.0 (27.0-35.4) | 0.003 |
| Sometimes n (%) | 21.7 (19.6-24.0) | 28.5 (23.6-34.0) | 13.6 (11.1-16.5) | 21.7 (20.7-22.7) | |
| No n (%) | 51.9 (49.6-54.0) | 47.1 (42.8-51.8) | 66.9 (60.1-73.2) | 47.3 (42.8-51.8) | |
| Circumcised | | | | | |
| Yes n (%) | 51.5 (48.3-54.6) | 54.0 (48.8-59.0) | 46.5 (44.4-48.7) | 52.3 (47.1-57.4) | 0.048 |
| No n (%) | 48.5 (45.4-51.7) | 46.0 (41.0-51.2) | 53.4 (51.3-55.6) | 47.6 (42.6-52.9) | |
| Alcohol use (ever) | | | | | |
| Yes n (%) | 50.7 (47.5-54.2) | 52.7 (46.7-57.8) | 52.8 (49.1-56.5) | 48.8 (41.9-55.7) | 0.527 |
| No n (%) | 49.3 (45.8-52.7) | 47.7 (42.2-53.3) | 47.2 (43.5-50.9) | 51.2 (44.3-58.1) | |

| | Overall (N=1189) | East (n=402) | North (n=259) | South (n=528) | P-value |
|---------------------------------|---|---|---|---|----------------|
| | Proportion estimate (95% CI) | Proportion estimate (95% CI) | Proportion estimate (95% CI) | Proportion estimate (95% CI) | |
| Drug use (past 3 months) | | | | | |
| Yes n (%) | 19.3 (17.3-21.3) | 12.3 (7.2-20.2) | 27.4 (24.6-30.3) | 19.6 (16.6-23.1) | 0.001 |
| No n (%) | 80.7 (78.7-82.7) | 87.7 (79.8-92.8) | 72.7 (69.7-75.4) | 80.4 (76.9-83.4) | |
| HIV status* | | | | | |
| Positive n (%) | 16.6 (15.1-18.1) | 18.9 (16.5-21.6) | 13.6 (11.3-16.4) | 15.8 (12.9-19.2) | 0.126 |
| Negative n (%) | 83.4 (81.9-84.9) | 81.1 (78.4-83.5) | 86.4 (83.6-88.7) | 84.2 (80.8-87.1) | |
| On ART** | | | | | |
| Yes n (%) | 28.7 (27.5-29.9) | 43.3 (-) | 7.0 (-) | 21.6 (-) | 0.001 |
| No n (%) | 71.3 (70.1-72.5) | 56.7 (-) | 93.0 (-) | 78.4 (-) | |

*Almost 50% missing HIV status; **sub-districts confidence intervals not calculated due to small sample.