**Table S1: Multiple logistic regression models for the association between number of HIV tests and three sexual risk behaviours (adjusted odds ratios with 95% confidence intervals in parentheses) in uMgungundlovu, KwaZulu-Natal, survey period 2014 to 2016.**

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| --- | --- | --- |
|  | **2014/15 Survey** | **2015/16 Survey** |
| (19)^condom uselast partner† | (20)Transactionsex‡ | (21)Sex partners12 mo. § | (22)condom uselast partner† | (23)Transactionsex‡ | (24)Sexual partners12 mo. § |
| 1 HIV test previous 12 mo. (vs. > 5 tests) | 1.08(0.82-1.43) | 1.71\*\*\*(1.27-2.30) | 0.66\*(0.46-0.95) | 1.05(0.86-1.27) | 0.88(0.64-1.20) | 0.95(0.76-1.19) |
| 2 HIV tests previous 12 mo. (vs. > 5 tests) | 1.20(0.92-1.55) | 1.30(0.91-1.85) | 0.68\*(0.48-0.96) | 1.36\*\*(1.11-1.66) | 1.75\*\*\*(1.27-2.40) | 1.19(0.94-1.49) |
| 3 HIV tests previous 12 mo. (vs. > 5 tests) | 1.12(0.85-1.48) | 1.76\*\*\*(1.19-2.60) | 0.75(0.51-1.11) | 1.16(0.96-1.41) | 1.76\*\*\*(1.33-2.33) | 0.93(0.72-1.19) |
| 4 HIV tests previous 12 mo. (vs. > 5 tests) | 0.82(0.60-1.13) | 1.43(0.96-2.11) | 0.91(0.58-1.42) | 1.26\*(1.01-1.58) | 1.24(0.88-1.75) | 1.02(0.78-1.33) |
| 15-24 yrs. (vs. 35-49 yrs.) | 0.78\*(0.63-0.97) | 0.82(0.62-1.09) | 1.95\*\*\*(1.38-2.74) | 1.05(0.86-1.27) | 0.97(0.77-1.21) | 1.78\*\*\*(1.41-2.25) |
| 25-34 yrs. (vs. 35-49 yrs.) | 1.16(0.94-1.43) | 1.05(0.85-1.32) | 1.88\*\*\*(1.35-2.62) | 1.35\*\*(1.13-1.62) | 1.15(0.93-1.42) | 1.58\*\*\*(1.26-1.99) |
| Male (vs. female) | 0.77\*\*(0.65-0.91) | 0.83(0.66-1.03) | 6.85\*\*\*(5.31-8.85) | 0.74\*\*\*(0.65-0.84) | 0.96(0.82-1.14) | 4.45\*\*\*(3.77-5.24) |
| Married (vs. unmarried) | 1.25(0.89-1.77) | 0.62\*(0.44-0.87) | 0.17\*\*\*(0.09-0.34) | 1.10(0.85-1.41) | 0.65\*(0.49-0.88) | 0.31\*\*\*(0.21-0.45) |
| Incomplete secondary school (vs. tertiary) | 1.31(0.93-1.85) | 2.21\*\*\*(1.29-3.76) | 0.68(0.42-1.12) | 1.25(0.98-1.60) | 0.98(0.69-1.40) | 1.2(0.88-1.64) |
| Complete secondary school (vs. tertiary) | 1.22(0.88-1.68) | 1.72\*(1.03-2.85) | 0.53\*\*\*(0.35-0.82) | 1.11(0.87-1.41) | 1.07(0.78-1.47) | 1.15(0.85-1.55) |
| away > 1 mo. in previous year (vs. < 1mo. previous year) | 1.24(0.90-1.70) | 1.21(0.86-1.70) | 1.01(0.67-1.52) | 0.90(0.70-1.17) | 0.9(0.64-1.27) | 1.59\*\*\*(1.24-2.04) |
| Highly food insecure (vs. food secure) | 0.88(0.69-1.11) | 0.56\*\*\*(0.40-0.79) | 1.21(0.91-1.61) | 0.88\*(0.75-1.03) | 0.53\*\*\*(0.37-0.74) | 1.28\*(1.03-1.60) |
| Moderate food insecure (vs. food secure) | 1.05(0.78-1.41) | 0.75(0.50-1.12) | 1.3(0.85-1.99) | 0.76\*\*(0.63-0.91) | 0.47\*\*\*(0.32-0.69) | 1.43\*\*\*(1.12-1.83) |
| Partner HIV positive (vs. don’t know partner status) | 0.63\*(0.43-0.92) | . | . | 1.06(0.77-1.45) | . | . |
| Partner not HIV positive (vs. don’t know partner status) | 1.16(0.90-1.51) | . | . | 1.22(0.93-1.60) | . | . |
| Duration of last relationship (continuous) | 1.03\*\*(1.01-1.05) | . | . | 1.09\*\*\*(1.07-1.10) | . | . |
| Pseudo R2 | 0.04 | 0.03 | 0.21 | 0.07 | 0.04 | 0.16 |
| n | 6316 | 6553 | 5151 | 8142 | 8167 | 7204 |

Notes: ^The numbers in the brackets refer to the Multivariate regression model number. \*\*\* p <0.001, \*\* p <0.01, \* p <0.05. † Condom use with most recent sexual partner in the last 12 months (0 = consistent condom use/always used condoms; 1 = inconsistent condom use/sometimes or never used condoms). ‡ engaging in transactional sex (0 = not giving or receiving goods or money for sex in the previous year; 1 = have given or received goods or money for sex in the previous year). § number of sexual partners in the previous year (0 = 0 to 1 sexual partner in the previous year; 1 = 2 or more sexual partners in the previous year).

**Table S2: Multiple logistic regression models for the association between types of HIV treatment support and three sexual risk behaviours (adjusted odds ratios with 95% confidence intervals in parentheses) in uMgungundlovu, KwaZulu-Natal, survey period 2014 to 2016.**

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| --- | --- | --- |
|  | **2014/15 survey** | **2015/16 survey** |
| (25) ^condom uselast partner† | (26)Transactionsex‡ | (27)Sex partners12 mo. § | (28)condom uselast partner† | (29)Transactionsex‡ | (30)Sexual partners12 mo. § |
| Received emotional support (vs. No emotional support) | 0.79(0.60-1.03) | 0.68(0.43-1.07) | 1.57(0.88-2.80) | 0.95(0.72-1.24) | 0.38\*\*\*(0.23-0.65) | 0.65\*(0.43-0.97) |
| Had a treatment buddy (vs. did not have a treatment buddy) | 0.70(0.49-1.01) | 0.60\*(0.38-0.96) | 1.09(0.53-2.22) | 0.73(0.53-1.01) | 0.31\*\*\*(0.14-0.65) | 0.46\*(0.26-0.79) |
| Received home-based support (vs. did not receive home-based support) | 1.63(0.75-3.55) | 1.24(0.65-2.37) | 0.55(0.19-1.60) | 2.24\*\*\*(1.56-3.23) | 5.40\*\*\*(3.11-9.39) | 1.97\*(1.16-3.36) |
| 15-24 yrs. (vs. 35-49 yrs.) | 0.86(0.52-1.42) | 0.96(0.61-1.49) | 1.25(0.56-2.81) | 1.50(0.98-2.31) | 1.34(0.83-2.16) | 1.61(0.95-2.73) |
| 25-34 yrs. (vs. 35-49 yrs.) | 1.10(0.84-1.44) | 0.86(0.62-1.19) | 1.93\*(1.09-3.41) | 1.40\*\*(1.11-1.77) | 1.27(0.97-1.66) | 1.27(0.91-1.78) |
| Male (vs. female) | 0.81(0.59-1.12) | 0.96(0.67-1.39) | 4.38\*\*\*(2.81-6.82) | 0.79(0.59-1.04) | 1.12(0.81-1.54) | 3.78\*\*\*(2.67-5.35) |
| Married (vs. unmarried) | 0.64\*(0.42-0.97) | 0.48\*(0.27-0.86) | 0.22\*\*\*(0.08-0.60) | 0.82(0.59-1.14) | 0.81(0.52-1.26) | 0.44\*(0.23-0.86) |
| Incomplete secondary school (vs. tertiary) | 1.70(0.82-3.51) | 1.77(0.74-4.27) | 1.06(0.36-3.11) | 1.75(0.98-3.14) | 0.63(0.25-1.56) | 1.38(0.50-3.81) |
| Complete secondary school (vs. tertiary) | 1.52(0.72-3.21) | 1.3(0.53-3.19) | 0.68(0.23-2.07) | 1.37(0.74-2.54) | 0.63(0.25-1.57) | 1.23(0.45-3.36) |
| away > 1 mo. in previous year (vs. < 1mo. previous year) | 1.61(0.97-2.67) | 1.31(0.81-2.12) | 0.53(0.23-1.23) | 0.70(0.44-1.12) | 1.01(0.49-2.10) | 1.93\*(1.09-3.42) |
| Highly food insecure (vs. food secure) | 0.88(0.54-1.44) | 0.62\*(0.40-0.96) | 1.59(0.98-2.60) | 0.81(0.62-1.05) | 0.57\*\*\*(0.39-0.82) | 1.67\*(1.11-2.51) |
| Moderate food insecure (vs. food secure) | 0.88(0.54-1.44) | 0.98(0.56-1.72) | 1.15(0.40-3.29) | 0.77(0.56-1.06) | 0.60\*(0.37-0.98) | 1.62(0.98-2.66) |
| Partner HIV positive (vs. don’t know partner status) | 0.77(0.50-1.20) | . | . | 1.12(0.73-1.71) | . | . |
| Partner not HIV positive (vs. don’t know partner status) | 0.82(0.58-1.17) | . | . | 0.84(0.56-1.26) | . | . |
| Duration of last relationship (continuous) | 1.01(0.98-1.03) | . | . | 1.06\*\*\*(1.04-1.09) | . | . |
| Pseudo R2 | 0.03 | 0.04 | 0.15 | 0.07 | 0.16 | 0.14 |
| n | 2243 | 2319 | 1722 | 2701 | 2712 | 2320 |

Notes: ^The numbers in the brackets refer to the Multivariate regression model number. \*\*\* p <0.001, \*\* p <0.01, \* p <0.05. † Condom use with most recent sexual partner in the last 12 months (0 = consistent condom use/always used condoms; 1 = inconsistent condom use/sometimes or never used condoms). ‡ engaging in transactional sex (0 = not giving or receiving goods or money for sex in the previous year; 1 = have given or received goods or money for sex in the previous year). § number of sexual partners in the previous year (0 = 0 to 1 sexual partner in the previous year; 1 = 2 or more sexual partners in the previous year).