|  |  |  |  |
| --- | --- | --- | --- |
| **Factor** | **Male** | **Female** | **p-value** |
| **N** | **742** | **1650** |  |
| *Age, mean (SD)* | *21.30 (1.96)* | *21.31 (1.93)* | *0.92* |
| Currently in school | 230 (31.0%) | 298 (18.1%) | <0.001 |
| Secondary School | 520 (70.1%) | 1008 (61.1%) | <0.001 |
| Post-Secondary School | 160 (21.6%) | 182 (11.0%) | <0.001 |
| Married | 51 (6.9%) | 792 (48.0%) | <0.001 |
| Employed | 247 (33.3%) | 247 (15.0%) | <0.001 |
| Any children | 109 (15.3%) | 1056 (65.8%) | <0.001 |
| Ward poverty rate, 10 - 20% | 267 (36.0%) | 578 (35.0%) | 0.65 |
| Ward poverty rate, above 20% | 309 (41.6%) | 827 (50.1%) | <0.001 |
| Distance to nearest health facility (km), mean (SD) | 1.50 (1.38) | 1.74 (1.94) | 0.002 |
| Age at first sexual intercourse, mean (SD) | 16.65 (2.61) | 17.63 (2.11) | <0.001 |
| Ever tested for an STI | 526 (70.9%) | 1374 (83.3%) | <0.001 |
| *Had a condom break* | *245 (33.0%)* | *257 (15.6%)* | *<0.001* |
| Uses other contraceptives | 272 (36.7%) | 1084 (65.7%) | <0.001 |
| Lifetime sex partners (n), mean (SD) | 5.34 (4.91) | 2.22 (1.89) | <0.001 |
| Frequency of sex in last month (n), mean (SD) | 2.40 (3.76) | 3.80 (5.26) | <0.001 |
| Friends or Family | 518 (69.8%) | 1004 (60.8%) | <0.001 |
| Media (radio/tv/internet) | 276 (37.2%) | 304 (18.4%) | <0.001 |
| Healthcare providers, school, or NGOs | 546 (73.6%) | 1352 (81.9%) | <0.001 |
| *Friends support using contraception* | *454 (61.2%)* | *750 (45.5%)* | *<0.001* |
| Partner supports using contraception | 449 (60.5%) | 1065 (64.5%) | 0.058 |
| Family supports using contraception | 180 (24.3%) | 478 (29.0%) | 0.017 |
| Contraceptive knowledge index, mean (SD) | -0.14 (1.04) | -0.01 (0.98) | 0.003 |
| *Beliefs about condoms index, mean (SD)* | *0.08 (0.84)* | *-0.11 (1.09)* | *<0.001* |
| Perceived control of condom use index, mean (SD) | -0.01 (1.10) | -0.00 (0.99) | 0.88 |
| Intends to use condoms in future | 402 (54.2%) | 430 (26.1%) | <0.001 |
| Used a condom during last intercourse | 452 (60.9%) | 522 (31.6%) | <0.001 |

**Table 2: Correlates of condom use knowledge, beliefs, and perceived control among young adults in Lusaka, Zambia**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Model I** |  |  |  | **Model II** |  |  |  | **Model III** |  |  |  |
| **Covariate** | **β** | **95% CI** | **Adj β** | **95% CI** | **β** | **95% CI** | **Adj β** | **95% CI** | **β** | **95% CI** | **Adj β** | **95% CI** |
| *Socio-Demographics* |  |  |  |  |  |  |  |  |  |  |  |  |
| Female | -0.21\*\*\* | (-0.31, -0.11) | -0.22\*\*\* | (-0.33, -0.10) | -0.19\*\*\* | (-0.27, -0.11) | 0.05 | (-0.05, 0.14) | 0.01 | (-0.09, 0.10) | 0.13\* | (0.01, 0.26) |
| Age | 0.08\*\*\* | (0.06, 0.10) | 0.04\*\* | (0.02, 0.06) | 0.01 | (-0.01, 0.03) | 0.01 | (-0.01, 0.04) | 0.00 | (-0.02, 0.02) | 0.00 | (-0.02, 0.03) |
| Currently in school | 0.02 | (-0.09, 0.13) | -0.06 | (-0.17, 0.05) | 0.32\*\*\* | (0.23, 0.40) | 0.06 | (-0.04, 0.16) | 0.10 | (-0.00, 0.21) | 0.03 | (-0.09, 0.16) |
| Secondary School | -0.15\*\*\* | (-0.24, -0.06) | 0.07 | (-0.04, 0.17) | 0.14\* | (0.03, 0.24) | 0.38\*\*\* | (0.24, 0.51) | 0.04 | (-0.05, 0.12) | 0.08 | (-0.04, 0.19) |
| Post-Secondary School | 0.49\*\*\* | (0.38, 0.60) | 0.39\*\*\* | (0.23, 0.55) | 0.59\*\*\* | (0.49, 0.68) | 0.63\*\*\* | (0.46, 0.80) | 0.17\*\* | (0.06, 0.27) | 0.13 | (-0.05, 0.30) |
| Married | -0.03 | (-0.12, 0.07) | -0.10 | (-0.21, 0.02) | -0.42\*\*\* | (-0.51, -0.33) | -0.22\*\* | (-0.36, -0.09) | -0.18\*\*\* | (-0.27, -0.10) | -0.12 | (-0.26, 0.01) |
| Employed | 0.11\* | (0.00, 0.22) | -0.02 | (-0.13, 0.09) | 0.13\*\* | (0.04, 0.23) | 0.11\* | (0.01, 0.21) | 0.05 | (-0.06, 0.16) | 0.05 | (-0.07, 0.17) |
| Any children | 0.06 | (-0.03, 0.15) | 0.04 | (-0.07, 0.16) | -0.36\*\*\* | (-0.45, -0.28) | -0.14\* | (-0.26, -0.01) | -0.08\* | (-0.16, -0.00) | 0.03 | (-0.10, 0.16) |
| Ward poverty rate, 10 - 20% | -0.14\*\* | (-0.24, -0.04) | -0.10 | (-0.24, 0.03) | 0.04 | (-0.08, 0.16) | -0.09 | (-0.20, 0.01) | 0.03 | (-0.06, 0.13) | -0.11 | (-0.23, 0.01) |
| Ward poverty rate, above 20% | -0.00 | (-0.10, 0.10) | -0.01 | (-0.15, 0.12) | -0.24\*\*\* | (-0.35, -0.13) | -0.14\*\* | (-0.24, -0.04) | -0.15\*\*\* | (-0.24, -0.07) | -0.20\*\* | (-0.32, -0.08) |
| Distance to nearest health facility (km) | -0.01 | (-0.03, 0.01) | -0.01 | (-0.03, 0.01) | -0.04\* | (-0.08, -0.01) | -0.01 | (-0.04, 0.03) | -0.00 | (-0.02, 0.02) | 0.01 | (-0.01, 0.03) |
| *Sexual Health* |  |  |  |  |  |  |  |  |  |  |  |  |
| Age at first sexual intercourse | 0.00 | (-0.02, 0.02) | -0.01 | (-0.03, 0.01) | 0.05\*\*\* | (0.03, 0.07) | 0.02\* | (0.00, 0.04) | 0.02 | (-0.00, 0.04) | 0.01 | (-0.01, 0.03) |
| Ever tested for an STI | 0.24\*\*\* | (0.14, 0.34) | 0.18\*\*\* | (0.08, 0.28) | -0.10\* | (-0.20, -0.00) | 0.04 | (-0.06, 0.13) | 0.02 | (-0.09, 0.13) | 0.07 | (-0.05, 0.19) |
| Had a condom break | 0.21\*\*\* | (0.10, 0.32) | 0.05 | (-0.06, 0.15) | 0.04 | (-0.05, 0.12) | -0.05 | (-0.14, 0.03) | 0.07 | (-0.02, 0.17) | 0.06 | (-0.05, 0.16) |
| Uses other contraceptives | 0.32\*\*\* | (0.23, 0.42) | 0.28\*\*\* | (0.17, 0.39) | -0.14\*\* | (-0.23, -0.05) | 0.03 | (-0.06, 0.13) | -0.08\* | (-0.16, -0.00) | -0.08 | (-0.18, 0.02) |
| Lifetime sex partners (n) | 0.03\*\*\* | (0.01, 0.04) | -0.01 | (-0.02, 0.01) | 0.00 | (-0.01, 0.01) | -0.01 | (-0.02, 0.00) | 0.01 | (-0.00, 0.02) | 0.01 | (-0.01, 0.02) |
| Frequency of sex in last month (n) | 0.01\* | (0.00, 0.02) | 0.01 | (-0.00, 0.02) | -0.02\*\*\* | (-0.03, -0.01) | 0.00 | (-0.01, 0.01) | -0.01\*\* | (-0.02, -0.00) | -0.01 | (-0.02, 0.00) |
| *Source for Information about Contraception* |  |  |  |  |  |  |  |  |  |  |  |  |
| Friends or Family | 0.15\*\* | (0.06, 0.24) | 0.14\*\* | (0.05, 0.23) | 0.05 | (-0.04, 0.13) | -0.06 | (-0.15, 0.02) | 0.09 | (-0.00, 0.18) | 0.07 | (-0.02, 0.16) |
| Media (radio/tv/internet) | 0.55\*\*\* | (0.44, 0.66) | 0.44\*\*\* | (0.32, 0.55) | 0.32\*\*\* | (0.23, 0.40) | 0.12\*\* | (0.03, 0.21) | 0.09 | (-0.01, 0.19) | 0.03 | (-0.08, 0.13) |
| Healthcare providers, school, or NGOs | 0.38\*\*\* | (0.27, 0.49) | 0.31\*\*\* | (0.21, 0.42) | 0.10 | (-0.00, 0.21) | 0.11\* | (0.01, 0.22) | 0.08 | (-0.04, 0.20) | 0.10 | (-0.03, 0.22) |
| *Social Support* |  |  |  |  |  |  |  |  |  |  |  |  |
| Friends support using contraception | 0.14\*\* | (0.05, 0.23) | -0.03 | (-0.12, 0.06) | 0.17\*\*\* | (0.09, 0.26) | 0.04 | (-0.05, 0.13) | 0.00 | (-0.08, 0.09) | -0.07 | (-0.16, 0.02) |
| Partner supports using contraception | 0.27\*\*\* | (0.17, 0.37) | 0.12\* | (0.02, 0.22) | 0.13\*\* | (0.04, 0.22) | 0.15\*\* | (0.06, 0.24) | 0.05 | (-0.04, 0.14) | 0.07 | (-0.04, 0.18) |
| Family supports using contraception | 0.07 | (-0.02, 0.16) | -0.04 | (-0.13, 0.06) | -0.04 | (-0.14, 0.06) | -0.08 | (-0.18, 0.02) | -0.01 | (-0.09, 0.08) | -0.00 | (-0.10, 0.09) |

**Table 3: Correlates of condom use behavioral intentions and behavioral outcomes among young adults in Lusaka, Zambia.**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Model IV** |  |  |  |  |  | **Model V** |  |  |  |  |  |  |  |
| **Covariate** | **OR** | **95% CI** | **Adj OR** | **95% CI** | **Adj OR** | **95% CI** | **OR** | **95% CI** | **Adj OR** | **95% CI** | **Adj OR** | **95% CI** | **Adj OR** | **95% CI** |
| *Socio-Demographics* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Female | 0.75\*\*\* | (0.72, 0.79) | 0.46\*\*\* | (0.35, 0.59) | 0.44\*\*\* | (0.34, 0.57) | 0.75\*\*\* | (0.71, 0.78) | 0.70\*\* | (0.54, 0.91) | 0.68\*\* | (0.53, 0.89) | 0.76\* | (0.58, 0.99) |
| Age | 0.99 | (0.98, 1.00) | 0.98 | (0.92, 1.04) | 0.97 | (0.91, 1.04) | 1.00 | (0.99, 1.01) | 1.03 | (0.97, 1.10) | 1.03 | (0.97, 1.09) | 1.03 | (0.97, 1.10) |
| Currently in school | 1.11\*\*\* | (1.05, 1.16) | 1.08 | (0.84, 1.39) | 1.07 | (0.82, 1.38) | 1.14\*\*\* | (1.08, 1.20) | 0.90 | (0.69, 1.17) | 0.89 | (0.68, 1.15) | 0.88 | (0.67, 1.14) |
| Secondary School | 1.00 | (0.96, 1.05) | 0.67\*\* | (0.50, 0.91) | 0.64\*\* | (0.47, 0.86) | 1.01 | (0.97, 1.05) | 0.90 | (0.69, 1.16) | 0.80 | (0.62, 1.04) | 0.85 | (0.65, 1.11) |
| Post-Secondary School | 1.13\*\*\* | (1.08, 1.20) | 0.64\* | (0.43, 0.95) | 0.56\*\* | (0.37, 0.83) | 1.29\*\*\* | (1.22, 1.37) | 1.17 | (0.77, 1.78) | 0.99 | (0.64, 1.51) | 1.06 | (0.70, 1.63) |
| Married | 0.81\*\*\* | (0.78, 0.84) | 0.59\*\* | (0.43, 0.83) | 0.62\*\* | (0.45, 0.87) | 0.67\*\*\* | (0.64, 0.70) | 0.21\*\*\* | (0.15, 0.30) | 0.22\*\*\* | (0.16, 0.31) | 0.23\*\*\* | (0.17, 0.32) |
| Employed | 1.04 | (0.99, 1.09) | 0.91 | (0.72, 1.15) | 0.89 | (0.71, 1.13) | 1.14\*\*\* | (1.09, 1.20) | 1.39\*\* | (1.10, 1.75) | 1.35\* | (1.07, 1.71) | 1.39\*\* | (1.10, 1.75) |
| Any children | 0.81\*\*\* | (0.78, 0.84) | 0.63\*\* | (0.48, 0.84) | 0.63\*\* | (0.48, 0.84) | 0.74\*\*\* | (0.71, 0.77) | 0.64\*\* | (0.49, 0.84) | 0.66\*\* | (0.50, 0.87) | 0.70\* | (0.53, 0.92) |
| Ward poverty rate, 10 - 20% | 0.95\* | (0.91, 1.00) | 0.72 | (0.52, 1.00) | 0.74 | (0.53, 1.03) | 1.03 | (0.97, 1.09) | 0.64\*\* | (0.47, 0.86) | 0.65\*\* | (0.48, 0.88) | 0.67\*\* | (0.50, 0.90) |
| Ward poverty rate, above 20% | 0.98 | (0.94, 1.03) | 0.94 | (0.68, 1.30) | 0.97 | (0.70, 1.33) | 0.85\*\*\* | (0.80, 0.89) | 0.50\*\*\* | (0.37, 0.67) | 0.52\*\*\* | (0.39, 0.70) | 0.52\*\*\* | (0.39, 0.69) |
| Distance to nearest health facility (km) | 0.98\*\* | (0.97, 0.99) | 0.95 | (0.88, 1.01) | 0.95 | (0.89, 1.02) | 0.98\*\* | (0.96, 0.99) | 0.98 | (0.91, 1.06) | 0.98 | (0.91, 1.06) | 0.99 | (0.92, 1.07) |
| *Sexual Health* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Age at first sexual intercourse | 0.99\* | (0.98, 1.00) | 1.02 | (0.97, 1.07) | 1.01 | (0.96, 1.07) | 1.00 | (0.99, 1.00) | 1.00 | (0.96, 1.05) | 1.00 | (0.95, 1.05) | 1.00 | (0.95, 1.05) |
| Ever tested for an STI | 0.93\*\* | (0.88, 0.98) | 0.97 | (0.75, 1.25) | 0.94 | (0.73, 1.22) | 0.93\*\* | (0.89, 0.98) | 1.32\* | (1.05, 1.65) | 1.30\* | (1.04, 1.63) | 1.32\* | (1.05, 1.66) |
| Had a condom break | 1.10\*\*\* | (1.05, 1.16) | 1.09 | (0.86, 1.37) | 1.09 | (0.86, 1.37) | 1.20\*\*\* | (1.14, 1.26) | 1.49\*\* | (1.14, 1.94) | 1.51\*\* | (1.15, 1.98) | 1.50\*\* | (1.13, 1.97) |
| Uses other contraceptives | 0.90\*\*\* | (0.86, 0.94) | 0.86 | (0.67, 1.11) | 0.84 | (0.65, 1.08) | 0.86\*\*\* | (0.83, 0.90) | 0.92 | (0.75, 1.14) | 0.93 | (0.75, 1.15) | 0.95 | (0.77, 1.17) |
| Lifetime sex partners (n) | 1.02\*\*\* | (1.02, 1.03) | 1.04\* | (1.00, 1.07) | 1.04\* | (1.00, 1.07) | 1.03\*\*\* | (1.02, 1.03) | 1.03 | (0.99, 1.06) | 1.03 | (0.99, 1.07) | 1.02 | (0.99, 1.06) |
| Frequency of sex in last month (n) | 0.99\*\* | (0.99, 1.00) | 1.02 | (0.99, 1.04) | 1.02 | (0.99, 1.04) | 0.98\*\*\* | (0.98, 0.99) | 1.00 | (0.97, 1.03) | 1.00 | (0.97, 1.03) | 1.00 | (0.97, 1.03) |
| *Source for Information about Contraception* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Friends or Family | 1.10\*\*\* | (1.05, 1.14) | 1.16 | (0.93, 1.46) | 1.12 | (0.89, 1.40) | 1.09\*\*\* | (1.05, 1.14) | 0.97 | (0.79, 1.19) | 0.99 | (0.80, 1.22) | 0.97 | (0.78, 1.19) |
| Media (radio/tv/internet) | 1.22\*\*\* | (1.16, 1.28) | 1.58\*\*\* | (1.26, 1.99) | 1.45\*\* | (1.15, 1.82) | 1.13\*\*\* | (1.08, 1.18) | 0.87 | (0.70, 1.07) | 0.86 | (0.69, 1.07) | 0.81 | (0.65, 1.02) |
| Healthcare providers, school, or NGOs | 1.06\* | (1.00, 1.11) | 1.62\*\*\* | (1.25, 2.10) | 1.51\*\* | (1.16, 1.97) | 0.98 | (0.93, 1.02) | 1.20 | (0.94, 1.53) | 1.17 | (0.92, 1.50) | 1.12 | (0.87, 1.43) |
| *Social Support* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Friends support using contraception | 1.12\*\*\* | (1.08, 1.17) | 1.11 | (0.90, 1.38) | 1.14 | (0.92, 1.41) | 1.15\*\*\* | (1.10, 1.20) | 1.22\* | (1.00, 1.49) | 1.22 | (1.00, 1.49) | 1.20 | (0.98, 1.47) |
| Partner supports using contraception | 1.13\*\*\* | (1.08, 1.18) | 1.98\*\*\* | (1.60, 2.45) | 1.91\*\*\* | (1.54, 2.36) | 1.05\* | (1.01, 1.10) | 1.63\*\*\* | (1.32, 2.03) | 1.58\*\*\* | (1.27, 1.96) | 1.47\*\*\* | (1.18, 1.84) |
| Family supports using contraception | 1.05 | (1.00, 1.09) | 1.19 | (0.95, 1.48) | 1.24 | (0.99, 1.55) | 0.98 | (0.93, 1.02) | 0.89 | (0.70, 1.12) | 0.89 | (0.70, 1.13) | 0.86 | (0.67, 1.09) |
| *Knowledge, Beliefs, Perceived Control* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Contraceptive knowledge index | 1.04\*\*\* | (1.02, 1.06) |  |  | 1.16\*\* | (1.05, 1.28) | 1.00 | (0.98, 1.02) |  |  | 0.96 | (0.87, 1.07) | 0.95 | (0.85, 1.05) |
| Beliefs about condoms index | 1.06\*\*\* | (1.04, 1.08) |  |  | 1.16\*\* | (1.04, 1.29) | 1.10\*\*\* | (1.08, 1.12) |  |  | 1.28\*\*\* | (1.16, 1.43) | 1.27\*\*\* | (1.14, 1.41) |
| Perceived control of condom use index | 1.03\*\* | (1.01, 1.04) |  |  | 1.09 | (0.99, 1.19) | 1.05\*\*\* | (1.03, 1.06) |  |  | 1.13\*\* | (1.03, 1.23) | 1.12\* | (1.03, 1.22) |
| *Behavioral Intentions* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Intends to use condoms in future | 1.03\*\* | (1.01, 1.04) |  |  | 1.09 | (0.99, 1.19) | 1.28\*\*\* | (1.23, 1.34) |  |  |  |  | 1.84\*\*\* | (1.48, 2.28) |

**Table 4: Correlates of condom use behavioral intentions and behavioral outcomes among MALE young adults in Lusaka, Zambia.**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Model IV** |  |  |  |  |  | **Model V** |  |  |  |  |  |  |  |
| **Covariate** | **OR** | **95% CI** | **Adj OR** | **95% CI** | **Adj OR** | **95% CI** | **OR** | **95% CI** | **Adj OR** | **95% CI** | **Adj OR** | **95% CI** | **Adj OR** | **95% CI** |
| *Socio-Demographics* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Age | 0.98\* | (0.96, 0.99) | 0.91 | (0.84, 1.00) | 0.91\* | (0.83, 1.00) | 1.01 | (0.99, 1.02) | 0.99 | (0.90, 1.10) | 1.00 | (0.90, 1.10) | 1.00 | (0.91, 1.11) |
| Currently in school | 1.02 | (0.94, 1.10) | 0.99 | (0.70, 1.41) | 1.00 | (0.70, 1.42) | 0.96 | (0.89, 1.04) | 0.75 | (0.50, 1.12) | 0.75 | (0.50, 1.13) | 0.75 | (0.50, 1.13) |
| Secondary School | 1.00 | (0.93, 1.08) | 0.41\*\* | (0.21, 0.79) | 0.40\*\* | (0.21, 0.79) | 0.98 | (0.91, 1.06) | 1.08 | (0.59, 1.98) | 1.02 | (0.55, 1.89) | 1.10 | (0.60, 2.02) |
| Post-Secondary School | 0.97 | (0.90, 1.05) | 0.34\*\* | (0.16, 0.72) | 0.31\*\* | (0.14, 0.69) | 1.11\* | (1.02, 1.22) | 1.27 | (0.60, 2.68) | 1.17 | (0.55, 2.51) | 1.29 | (0.60, 2.77) |
| Married | 0.82\*\* | (0.71, 0.94) | 0.45 | (0.20, 1.05) | 0.45 | (0.19, 1.05) | 0.70\*\*\* | (0.61, 0.80) | 0.25\*\* | (0.10, 0.62) | 0.25\*\* | (0.10, 0.62) | 0.27\*\* | (0.11, 0.65) |
| Employed | 0.93\* | (0.86, 0.99) | 0.82 | (0.59, 1.12) | 0.82 | (0.59, 1.12) | 1.03 | (0.96, 1.11) | 1.36 | (0.94, 1.95) | 1.37 | (0.95, 1.97) | 1.41 | (0.97, 2.04) |
| Any children | 0.92 | (0.84, 1.01) | 0.92 | (0.54, 1.58) | 0.95 | (0.56, 1.62) | 0.84\*\*\* | (0.76, 0.93) | 0.66 | (0.39, 1.12) | 0.68 | (0.40, 1.14) | 0.68 | (0.40, 1.14) |
| Ward poverty rate, 10 - 20% | 0.91\* | (0.84, 0.99) | 0.69 | (0.45, 1.07) | 0.69 | (0.45, 1.06) | 1.06 | (0.98, 1.15) | 0.69 | (0.40, 1.18) | 0.69 | (0.41, 1.19) | 0.72 | (0.42, 1.23) |
| Ward poverty rate, above 20% | 1.05 | (0.97, 1.14) | 0.96 | (0.62, 1.48) | 0.96 | (0.62, 1.48) | 0.84\*\*\* | (0.77, 0.90) | 0.42\*\*\* | (0.25, 0.70) | 0.43\*\* | (0.26, 0.72) | 0.43\*\* | (0.26, 0.73) |
| Distance to nearest health facility (km) | 0.99 | (0.97, 1.02) | 0.99 | (0.88, 1.11) | 1.00 | (0.89, 1.12) | 0.97 | (0.94, 1.00) | 0.95 | (0.82, 1.09) | 0.95 | (0.82, 1.10) | 0.95 | (0.82, 1.10) |
| *Sexual Health* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Age at first sexual intercourse | 1.00 | (0.98, 1.01) | 1.01 | (0.94, 1.09) | 1.01 | (0.94, 1.09) | 1.00 | (0.99, 1.02) | 1.03 | (0.96, 1.11) | 1.03 | (0.96, 1.11) | 1.03 | (0.96, 1.11) |
| Ever tested for an STI | 1.04 | (0.96, 1.13) | 1.16 | (0.81, 1.68) | 1.15 | (0.80, 1.66) | 1.04 | (0.97, 1.13) | 1.24 | (0.87, 1.76) | 1.21 | (0.85, 1.71) | 1.19 | (0.84, 1.70) |
| Had a condom break | 0.98 | (0.91, 1.06) | 0.89 | (0.64, 1.24) | 0.89 | (0.64, 1.25) | 1.09\* | (1.01, 1.17) | 1.30 | (0.91, 1.86) | 1.31 | (0.91, 1.88) | 1.33 | (0.92, 1.90) |
| Uses other contraceptives | 1.01 | (0.93, 1.10) | 0.98 | (0.68, 1.41) | 0.96 | (0.67, 1.37) | 1.03 | (0.96, 1.11) | 0.99 | (0.69, 1.42) | 1.00 | (0.69, 1.45) | 1.00 | (0.69, 1.46) |
| Lifetime sex partners (n) | 1.00 | (1.00, 1.01) | 1.02 | (0.99, 1.06) | 1.03 | (0.99, 1.06) | 1.01\* | (1.00, 1.02) | 1.03 | (0.98, 1.07) | 1.03 | (0.98, 1.07) | 1.02 | (0.98, 1.07) |
| Frequency of sex in last month (n) | 0.99 | (0.98, 1.00) | 0.99 | (0.94, 1.04) | 0.99 | (0.94, 1.04) | 1.00 | (0.99, 1.01) | 1.03 | (0.97, 1.08) | 1.03 | (0.97, 1.09) | 1.03 | (0.97, 1.09) |
| *Source for Information about Contraception* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Friends or Family | 1.08 | (0.99, 1.18) | 1.30 | (0.88, 1.91) | 1.26 | (0.85, 1.88) | 1.06 | (0.97, 1.14) | 0.96 | (0.68, 1.35) | 0.95 | (0.67, 1.34) | 0.93 | (0.66, 1.30) |
| Media (radio/tv/internet) | 1.10\* | (1.02, 1.18) | 1.46\* | (1.06, 1.99) | 1.38 | (0.99, 1.93) | 1.05 | (0.97, 1.13) | 0.99 | (0.71, 1.39) | 1.00 | (0.70, 1.42) | 0.97 | (0.68, 1.39) |
| Healthcare providers, school, or NGOs | 1.08 | (0.98, 1.19) | 1.34 | (0.88, 2.04) | 1.30 | (0.85, 1.98) | 1.01 | (0.93, 1.09) | 1.06 | (0.73, 1.53) | 1.06 | (0.73, 1.54) | 1.03 | (0.71, 1.50) |
| *Social Support* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Friends support using contraception | 1.13\*\* | (1.04, 1.22) | 1.23 | (0.87, 1.73) | 1.26 | (0.89, 1.78) | 1.19\*\*\* | (1.11, 1.27) | 1.54\* | (1.10, 2.16) | 1.54\* | (1.10, 2.17) | 1.52\* | (1.08, 2.14) |
| Partner supports using contraception | 1.16\*\*\* | (1.07, 1.25) | 1.68\*\* | (1.21, 2.33) | 1.65\*\* | (1.18, 2.30) | 1.12\*\* | (1.04, 1.20) | 1.41 | (0.99, 2.03) | 1.39 | (0.97, 1.99) | 1.34 | (0.94, 1.92) |
| Family supports using contraception | 1.15\*\* | (1.06, 1.26) | 1.57\* | (1.06, 2.34) | 1.60\* | (1.08, 2.38) | 1.09\* | (1.00, 1.18) | 1.15 | (0.76, 1.75) | 1.14 | (0.75, 1.74) | 1.09 | (0.72, 1.68) |
| *Knowledge, Beliefs, Perceived Control* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Contraceptive knowledge index | 1.03 | (0.99, 1.07) |  |  | 1.08 | (0.91, 1.29) | 1.00 | (0.97, 1.03) |  |  | 0.96 | (0.81, 1.16) | 0.96 | (0.80, 1.15) |
| Beliefs about condoms index | 1.02 | (0.98, 1.07) |  |  | 1.08 | (0.89, 1.31) | 1.06\*\* | (1.02, 1.11) |  |  | 1.15 | (0.93, 1.41) | 1.14 | (0.93, 1.39) |
| Perceived control of condom use index | 1.01 | (0.98, 1.05) |  |  | 0.99 | (0.85, 1.15) | 1.04\*\* | (1.01, 1.07) |  |  | 1.10 | (0.97, 1.26) | 1.11 | (0.97, 1.26) |
| *Behavioral Intentions* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Intends to use condoms in future | 1.01 | (0.98, 1.05) |  |  | 0.99 | (0.85, 1.15) | 1.11\*\* | (1.03, 1.19) |  |  |  |  | 1.43\* | (1.01, 2.01) |

**Table 5: Correlates of condom use behavioral intentions and behavioral outcomes among FEMALE young adults in Lusaka, Zambia.**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Model IV** |  |  |  |  |  | **Model V** |  |  |  |  |  |  |  |
| **Covariate** | **OR** | **95% CI** | **Adj OR** | **95% CI** | **Adj OR** | **95% CI** | **OR** | **95% CI** | **Adj OR** | **95% CI** | **Adj OR** | **95% CI** | **Adj OR** | **95% CI** |
| *Socio-Demographics* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Age | 1.00 | (0.99, 1.01) | 1.01 | (0.93, 1.11) | 1.01 | (0.92, 1.10) | 0.99 | (0.98, 1.00) | 1.06 | (0.98, 1.15) | 1.05 | (0.97, 1.14) | 1.05 | (0.97, 1.14) |
| Currently in school | 1.09\*\* | (1.02, 1.16) | 1.05 | (0.75, 1.49) | 1.03 | (0.72, 1.47) | 1.18\*\*\* | (1.10, 1.26) | 1.04 | (0.73, 1.49) | 1.01 | (0.70, 1.45) | 1.00 | (0.69, 1.45) |
| Secondary School | 0.97 | (0.93, 1.02) | 0.73 | (0.52, 1.02) | 0.69\* | (0.49, 0.98) | 0.99 | (0.94, 1.04) | 0.87 | (0.65, 1.18) | 0.77 | (0.57, 1.03) | 0.81 | (0.60, 1.09) |
| Post-Secondary School | 1.17\*\*\* | (1.09, 1.26) | 0.87 | (0.53, 1.45) | 0.74 | (0.44, 1.23) | 1.32\*\*\* | (1.22, 1.43) | 1.19 | (0.71, 1.99) | 0.96 | (0.58, 1.61) | 1.01 | (0.60, 1.69) |
| Married | 0.89\*\*\* | (0.85, 0.93) | 0.66\* | (0.45, 0.97) | 0.71 | (0.48, 1.04) | 0.71\*\*\* | (0.68, 0.75) | 0.22\*\*\* | (0.15, 0.31) | 0.23\*\*\* | (0.16, 0.33) | 0.23\*\*\* | (0.16, 0.33) |
| Employed | 1.01 | (0.95, 1.07) | 0.98 | (0.71, 1.37) | 0.94 | (0.68, 1.32) | 1.10\*\* | (1.03, 1.18) | 1.41\* | (1.03, 1.95) | 1.32 | (0.95, 1.83) | 1.35 | (0.96, 1.89) |
| Any children | 0.88\*\*\* | (0.84, 0.92) | 0.58\*\* | (0.41, 0.81) | 0.56\*\* | (0.39, 0.79) | 0.79\*\*\* | (0.75, 0.84) | 0.64\*\* | (0.46, 0.88) | 0.65\* | (0.46, 0.91) | 0.70\* | (0.49, 1.00) |
| Ward poverty rate, 10 - 20% | 0.96 | (0.91, 1.02) | 0.73 | (0.46, 1.16) | 0.77 | (0.49, 1.23) | 1.01 | (0.95, 1.08) | 0.59\* | (0.40, 0.88) | 0.61\* | (0.41, 0.91) | 0.63\* | (0.43, 0.92) |
| Ward poverty rate, above 20% | 0.98 | (0.93, 1.04) | 0.94 | (0.60, 1.46) | 0.98 | (0.62, 1.53) | 0.88\*\*\* | (0.83, 0.93) | 0.54\*\* | (0.36, 0.79) | 0.56\*\* | (0.38, 0.82) | 0.55\*\* | (0.38, 0.80) |
| Distance to nearest health facility (km) | 0.99\*\* | (0.98, 1.00) | 0.93 | (0.86, 1.01) | 0.94 | (0.87, 1.02) | 0.98\*\* | (0.97, 1.00) | 0.99 | (0.92, 1.07) | 0.99 | (0.92, 1.07) | 1.00 | (0.92, 1.09) |
| *Sexual Health* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Age at first sexual intercourse | 1.01 | (1.00, 1.02) | 1.01 | (0.94, 1.09) | 1.00 | (0.93, 1.08) | 1.01 | (1.00, 1.02) | 0.98 | (0.91, 1.05) | 0.97 | (0.91, 1.04) | 0.97 | (0.90, 1.04) |
| Ever tested for an STI | 0.93\* | (0.87, 0.99) | 0.84 | (0.60, 1.18) | 0.81 | (0.57, 1.16) | 0.94 | (0.88, 1.00) | 1.33 | (0.98, 1.80) | 1.34 | (0.98, 1.82) | 1.41\* | (1.03, 1.93) |
| Had a condom break | 1.08\* | (1.02, 1.15) | 1.29 | (0.92, 1.82) | 1.26 | (0.89, 1.78) | 1.16\*\*\* | (1.08, 1.24) | 1.68\*\* | (1.17, 2.42) | 1.70\*\* | (1.18, 2.45) | 1.64\*\* | (1.13, 2.39) |
| Uses other contraceptives | 0.94\* | (0.90, 0.99) | 0.77 | (0.56, 1.05) | 0.75 | (0.55, 1.03) | 0.88\*\*\* | (0.84, 0.92) | 0.84 | (0.64, 1.09) | 0.84 | (0.64, 1.11) | 0.88 | (0.67, 1.15) |
| Lifetime sex partners (n) | 1.02\*\* | (1.01, 1.03) | 1.08\* | (1.01, 1.17) | 1.09\* | (1.01, 1.17) | 1.02\*\*\* | (1.01, 1.03) | 1.03 | (0.96, 1.11) | 1.04 | (0.96, 1.12) | 1.02 | (0.95, 1.11) |
| Frequency of sex in last month (n) | 1.00 | (0.99, 1.00) | 1.02 | (0.99, 1.05) | 1.02 | (0.99, 1.05) | 0.99\*\*\* | (0.98, 0.99) | 0.99 | (0.96, 1.02) | 0.99 | (0.96, 1.02) | 0.99 | (0.95, 1.02) |
| *Source for Information about Contraception* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Friends or Family | 1.07\*\* | (1.02, 1.12) | 1.13 | (0.87, 1.48) | 1.09 | (0.83, 1.42) | 1.07\*\* | (1.02, 1.13) | 1.00 | (0.76, 1.31) | 1.03 | (0.78, 1.37) | 1.01 | (0.76, 1.33) |
| Media (radio/tv/internet) | 1.19\*\*\* | (1.11, 1.27) | 1.71\*\*\* | (1.25, 2.34) | 1.55\*\* | (1.13, 2.13) | 1.07\* | (1.01, 1.13) | 0.79 | (0.60, 1.04) | 0.77 | (0.58, 1.02) | 0.70\* | (0.53, 0.94) |
| Healthcare providers, school, or NGOs | 1.10\*\*\* | (1.04, 1.15) | 1.93\*\*\* | (1.36, 2.73) | 1.74\*\* | (1.21, 2.49) | 1.01 | (0.95, 1.07) | 1.38 | (0.99, 1.93) | 1.33 | (0.94, 1.87) | 1.23 | (0.87, 1.75) |
| *Social Support* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Friends support using contraception | 1.07\*\* | (1.02, 1.11) | 1.02 | (0.78, 1.34) | 1.06 | (0.80, 1.39) | 1.08\*\* | (1.02, 1.13) | 1.05 | (0.82, 1.35) | 1.06 | (0.82, 1.36) | 1.05 | (0.82, 1.35) |
| Partner supports using contraception | 1.13\*\*\* | (1.08, 1.18) | 2.28\*\*\* | (1.74, 2.98) | 2.19\*\*\* | (1.67, 2.88) | 1.04 | (0.99, 1.09) | 1.76\*\*\* | (1.35, 2.29) | 1.68\*\*\* | (1.29, 2.21) | 1.53\*\* | (1.16, 2.02) |
| Family supports using contraception | 1.03 | (0.98, 1.08) | 1.08 | (0.81, 1.43) | 1.14 | (0.85, 1.52) | 0.96 | (0.91, 1.01) | 0.80 | (0.60, 1.08) | 0.81 | (0.60, 1.09) | 0.79 | (0.58, 1.07) |
| *Knowledge, Beliefs, Perceived Control* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Contraceptive knowledge index | 1.06\*\*\* | (1.03, 1.08) |  |  | 1.23\*\* | (1.08, 1.39) | 1.01 | (0.98, 1.03) |  |  | 0.97 | (0.86, 1.10) | 0.94 | (0.82, 1.07) |
| Beliefs about condoms index | 1.05\*\*\* | (1.03, 1.07) |  |  | 1.16\* | (1.03, 1.31) | 1.09\*\*\* | (1.07, 1.11) |  |  | 1.34\*\*\* | (1.17, 1.53) | 1.32\*\*\* | (1.15, 1.51) |
| Perceived control of condom use index | 1.04\*\*\* | (1.02, 1.06) |  |  | 1.18\* | (1.04, 1.34) | 1.05\*\*\* | (1.03, 1.07) |  |  | 1.14\* | (1.02, 1.28) | 1.12 | (0.99, 1.25) |
| *Behavioral Intentions* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Intends to use condoms in future | 1.04\*\*\* | (1.02, 1.06) |  |  | 1.18\* | (1.04, 1.34) | 1.26\*\*\* | (1.19, 1.33) |  |  |  |  | 2.19\*\*\* | (1.65, 2.91) |

**Table S1: Construction of contraceptive knowledge index.**

|  |  |  |
| --- | --- | --- |
| **Variable** | **Response** | **Weight** |
| C8. A. FEMALE STERILIZATION (spontaneous mention) | 0 | -1.815493401310559 |
|  | 1 | 7.232405308803949 |
| C8. B. MALE STERILIZATION OR VASECTOMY (spontaneous mention) | 0 | -1.255300270378059 |
|  | 1 | 7.677766769986739 |
| C8. C. PILL (spontaneous mention) | 0 | -3.58938309461222 |
|  | 1 | 1.481490529355183 |
| C8. D. IUD (spontaneous mention) | 0 | -1.553446677236857 |
|  | 1 | 6.064416836136195 |
| C8. E. INJECTABLES (spontaneous mention) | 0 | -3.211457235585849 |
|  | 1 | 2.182098824179628 |
| C8. F. IMPLANTS (spontaneous mention) | 0 | -2.251406017542515 |
|  | 1 | 4.489594387232533 |
| C8. G. MALE CONDOM (spontaneous mention) | 0 | -2.870200974533807 |
|  | 1 | .2890849902408154 |
| C8. H. FEMALE CONDOM (spontaneous mention) | 0 | -2.542189389183642 |
|  | 1 | 2.650800951872397 |
| C8. I. DIAPHRAGM (spontaneous mention) | 0 | -.5307824584752726 |
|  | 1 | 9.023301794079634 |
| C8. M. EMERGENCY CONTRACEPTION (spontaneous mention) | 0 | -1.780258502898564 |
|  | 1 | 6.184055852173964 |
| C16. A. Condoms prevent pregnancy. | 0 | -.9086813052920422 |
|  | 1 | .0900847845763665 |
| C16. B. Condoms can help prevent STIs and HIV | 0 | -.3083751066228696 |
|  | 1 | .0370230728302717 |
| C16. N. Before using a male condom, one should check the exp | 0 | -1.390837406825351 |
|  | 1 | .0202907313993091 |
| C16. O. One should always use lubricant with the male condom | 0 | .4926005553651185 |
|  | 1 | -1.131707310386241 |
| C16. P. The male condom can be reused. | 0 | .0296328799069055 |
|  | 1 | -1.941597826943747 |
| C16. Q. After using the male condom, it should not be dispos | 0 | -1.121150385918684 |
|  | 1 | .3678774703795685 |
| C11. Do you know where to obtain a contraceptive? | 0 | -2.015910748226098 |
|  | 1 | .162297899221593 |
|  | 0 | -.4661233681860453 |
|  | 1 | .3738869419725526 |

**Table S2: Construction of beliefs about condoms index.**

|  |  |  |
| --- | --- | --- |
| **Variable** | **Response** | **Weight** |
| C16. E. Condoms are more appropriate for unmarried couples t | 0 | 1.376832148838898 |
|  | 1 | -.9296877432619916 |
| C16. H. If a woman suggested using male condoms to her partn | 0 | 1.195500755035287 |
|  | 1 | -2.859375778481658 |
| C16. I. Condoms reduce sexual pleasure. | 0 | 2.145586420626373 |
|  | 1 | -1.860802702654848 |
| C16. J. Having sex with a condom is important. | 0 | -3.823461369336398 |
|  | 1 | .3580273013689559 |
| C16. K. Male condoms can slip off the man and get permanentl | 0 | 1.071604007208937 |
|  | 1 | -2.513925076371236 |
| C16. L. Male condoms make it more difficult for the man to a | 0 | 2.190635512272105 |
|  | 1 | -2.155529173934411 |
| C16. M. Male condoms are for sex workers | 0 | .9862301599935483 |
|  | 1 | -4.745943258184916 |

**Table S3: Construction of perceived control index.**

|  |  |  |
| --- | --- | --- |
| **Variable** | **Response** | **Weight** |
| C16. C. A woman should be able to suggest to her partner tha | 0 | -7.886096411608196 |
|  | 1 | .7559211586256556 |
| C16. D. A man should be able to suggest to his partner that | 0 | -7.468820374170715 |
|  | 1 | .6905572556697093 |
| C16. F. I feel uncomfortable buying condoms near my home. | 0 | .5277799844685067 |
|  | 1 | -.2911889569481417 |
| C16. G. It is difficult for a woman to ask her sex partner t | 0 | .8901114052208083 |
|  | 1 | -1.332539860472237 |