

Supplementary Table S1. Logistic regression on the association of abnormal genital discharge and genital sores with demographic, socio-economic and behavioural risk factors (multiple imputation analysis).

| Study factors | Model 3 (abnormal genital discharge) | 95% CI | p-value | Model 3 (genital sores) | 95% CI | p-value |
|------------------------------------------------|-----------------------------------------------|---------------|---------|-------------------------------|---------------|---------|
| Demographic factors | | | | | | |
| Age (Ref:15-24 years) | | | | | | |
| 25-34 years | 1.14** | (1.04 - 1.26) | 0.008 | 1.19** | (1.06 - 1.35) | 0.004 |
| 35-49 years | 0.92 | (0.83 - 1.02) | 0.114 | 1.02 | (0.89 - 1.17) | 0.813 |
| Age at first marriage (Ref: 18 years or above) | | | | | | |
| 9-14 years | 1.10 | (0.98 - 1.24) | 0.106 | 1.04 | (0.91 - 1.18) | 0.569 |
| 15-17 years | 1.18* | (1.05 - 1.32) | 0.004 | 1.05 | (0.92 - 1.20) | 0.470 |
| Type of residence (Ref: Rural) | | | | | | |
| Urban | 1.01 | (0.91 - 1.13) | 0.827 | 1.07 | (0.94 - 1.22) | 0.277 |
| Socio-economic factors | | | | | | |
| Education (Ref: No education) | | | | | | |
| Primary | 1.08 | (0.95 - 1.22) | 0.220 | 1.13 | (0.99 - 1.29) | 0.078 |
| Secondary | 0.95 | (0.83 - 1.09) | 0.479 | 1.09 | (0.93 - 1.28) | 0.293 |
| Higher | 0.78* | (0.62 - 0.98) | 0.032 | 1.06 | (0.81 - 1.40) | 0.655 |
| Partner's education (Ref: No education) | | | | | | |
| Primary | 1.06 | (0.96 - 1.18) | 0.242 | 1.05 | (0.92 - 1.19) | 0.481 |
| Secondary | 0.97 | (0.87 - 1.09) | 0.638 | 0.99 | (0.86 - 1.14) | 0.880 |
| Higher | 0.87 | (0.73 - 1.03) | 0.100 | 0.90 | (0.73 - 1.12) | 0.344 |
| Wealth quintile (Ref: Poorest) | | | | | | |
| Poorer | 1.02 | (0.91 - 1.15) | 0.728 | 1.01 | (0.87 - 1.17) | 0.938 |
| Middle | 0.95 | (0.83 - 1.08) | 0.436 | 0.89 | (0.76 - 1.05) | 0.168 |
| Richer | 0.88 | (0.77 - 1.01) | 0.079 | 0.86 | (0.72 - 1.03) | 0.109 |
| Richest | 0.73*** | (0.61 - 0.86) | <0.001 | 0.76** | (0.61 - 0.93) | 0.008 |
| Paid work status (Ref: No) | | | | | | |
| Yes | 1.13* | (1.02 - 1.26) | 0.019 | 1.20** | (1.06 - 1.35) | 0.003 |
| Behavioral factors | | | | | | |
| Contraceptive method (Ref: No method) | | | | | | |
| Traditional method | 1.40*** | (1.22 - 1.61) | <0.001 | 1.12 | (0.94 - 1.33) | 0.214 |
| Modern method | 1.08 | (1.00 - 1.18) | 0.063 | 1.08 | (0.98 - 1.20) | 0.111 |
| Knowledge about STI (Ref: No) | | | | | | |
| Yes | 1.10 | (0.99 - 1.23) | 0.081 | 1.27*** | (1.13 - 1.43) | <0.001 |
| Wife beating justified (Ref: No) | | | | | | |
| Yes | 1.01 | (0.89 - 1.16) | 0.834 | 1.29* | (1.11 - 1.51) | 0.001 |
| Women's healthcare decision-making (Ref: Wife) | | | | | | |
| Wife and husband | 0.77 | (0.69 - 0.87) | <0.001 | 0.81* | (0.70 - 0.93) | 0.002 |
| Respondent and someone else | 0.87 | (0.73 - 1.04) | 0.137 | 0.78* | (0.62 - 0.97) | 0.025 |
| Husband | 0.93 | (0.81 - 1.05) | 0.246 | 0.87 | (0.76 - 1.01) | 0.062 |

Exposure to mass media (Ref: Not at all)

| | | | | |
|-------------------------|-----------------------|--------|-----------------------|--------|
| Irregular | 1.22* (1.07 - 1.38) | 0.002 | 1.01 (0.85 - 1.18) | 0.950 |
| Regular | 1.11* (1.00 - 1.22) | 0.047 | 1.02 (0.90 - 1.16) | 0.737 |
| Survey year (Ref: 2007) | | | | |
| Survey Year = 2011 | 1.48*** (1.31 - 1.68) | <0.001 | 1.39*** (1.20 - 1.60) | <0.001 |
| Survey Year = 2014 | 1.54*** (1.35 - 1.75) | <0.001 | 1.04 (0.90 - 1.21) | 0.572 |
| Constant | 0.07*** (0.06 - 0.09) | <0.001 | 0.04*** (0.03 - 0.06) | <0.001 |

| | | |
|-------------|--------|--------|
| Observation | 43,557 | 43,557 |
|-------------|--------|--------|

Note: *** p<0.001, ** p<0.01, * p<0.05