# Young Women, Rich(er) Men, and the spread of HIV ${ }^{1}$ 

Kathleen Beegle, Berk Özler<br>October 19, 2006<br>Development Research Group, The World Bank, 1818 H St., NW, Washington, DC, 20433


#### Abstract

In this paper, we examine whether there is a relationship between gender inequality and the HIV status of individuals in Kenya. We construct a measure of gender inequality based on economic status, which is different than other measures of gender inequality considered in the literature (such as intimate partner violence or sexual relationship power scales). Using a unique combination of data sets for our analysis Kenya Demographic Health Survey (2003), Kenya Population Census (1998), and a poverty map of Kenya at the sub-location level - we estimate gender inequality between young women and older men at the sub-location level. We find that gender inequality in the sub-location has a strong and positive correlation with an individual's likelihood of being HIV positive, conditional on a set of individual and community characteristics. The effects are stronger for females and in Western Kenya. Conditional on inequality, poverty of young women in the sub-location is either uncorrelated with an individual's HIV status or negatively correlated. We also find significant correlations between an individual's HIV status and his/her age, sex, education, schooling status, ethnicity, and household assets. The results contribute to our understanding of the socioeconomic determinants of the spread of HIV/AIDS and may have important implications for prevention policies.


[^0]Table 0: Prevalence of HIV in Kenya

|  | Females 15-49 | Males 15-49 | Females 15-49 non-Luo | Females 15-49 Luo | Males <br> 15-49 non-Luo | Males <br> 15-49 <br> Luo |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Central | 7.7\% | 2.1\% | 7.5\% | 29.4\% | 2.2\% | 0.0\% |
| Coast | 6.6\% | 4.3\% | 5.7\% | 26.4\% | 4.0\% | 9.9\% |
| Eastern | 5.5\% | 1.4\% | 5.5\% | na | 1.4\% | 0.0\% |
| Nyanza | 17.9\% | 12.1\% | 7.0\% | 25.6\% | 0.8\% | 20.4\% |
| Rift Valley | 7.0\% | 3.5\% | 6.3\% | 35.9\% | 2.7\% | 29.2\% |
| Western | 5.8\% | 3.6\% | 6.0\% | 0.0\% | 3.4\% | 23.0\% |
|  | Females | Males | Females | Females | Males | Males |
|  | 15-24 | 20-39 | 15-24 | 15-24 | 20-39 | 20-39 |
|  |  |  | non-Luo | Luo | non-Luo | Luo |
| Central | 6.3\% | 2.9\% | 5.7\% | 41.7\% | 3.0\% | 0.0\% |
| Coast | 4.0\% | 5.2\% | 2.6\% | 24.0\% | 5.6\% | 0.0\% |
| Eastern | 1.5\% | 1.8\% | 1.5\% | na | 1.8\% | 0.0\% |
| Nyanza | 14.5\% | 15.5\% | 5.0\% | 21.4\% | 0.2\% | 28.8\% |
| Rift Valley | 5.1\% | 4.6\% | 4.7\% | 31.1\% | 3.8\% | 25.5\% |
| Western | 2.9\% | 4.8\% | 3.0\% | 0.0\% | 4.5\% | 29.4\% |

Notes: HIV estimates from Kenya DHS 2003, population weighted.

Table 1: Summary statistics

|  | (1) <br> Kenya | (2) <br> East | (3) <br> West | (4) <br> Females | (5) <br> Male | (6) <br> West <br> Females | (7) <br> West <br> Males | (8) <br> Nyanza | (9) <br> Rift Valley <br> \& Western |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Individual Characteristics |  |  |  |  |  |  |  |  |  |
| HIV status (1= positive) | $\begin{gathered} 0.06 \\ (0.23) \end{gathered}$ | $\begin{gathered} 0.04 \\ (0.19) \end{gathered}$ | $\begin{gathered} 0.08 \\ (0.27) \end{gathered}$ | $\begin{gathered} 0.06 \\ (0.24) \end{gathered}$ | $\begin{gathered} 0.06 \\ (0.23) \end{gathered}$ | $\begin{gathered} 0.07 \\ (0.26) \end{gathered}$ | $\begin{gathered} 0.08 \\ (0.27) \end{gathered}$ | $\begin{gathered} 0.15 \\ (0.36) \end{gathered}$ | $\begin{gathered} 0.04 \\ (0.21) \end{gathered}$ |
| Age | $\begin{aligned} & 23.98 \\ & (6.50) \end{aligned}$ | $\begin{gathered} 24.24 \\ (6.55) \end{gathered}$ | 23.77 <br> (6.46) | $\begin{aligned} & 19.23 \\ & (2.87) \end{aligned}$ | 28.27 <br> (5.86) | $\begin{aligned} & 19.18 \\ & (2.85) \end{aligned}$ | 28.14 <br> (5.87) | $\begin{aligned} & 23.31 \\ & (6.51) \end{aligned}$ | $\begin{aligned} & 23.93 \\ & (6.38) \end{aligned}$ |
| Male | $\begin{gathered} 0.53 \\ (0.50) \end{gathered}$ | $\begin{gathered} 0.54 \\ (0.50) \end{gathered}$ | $\begin{gathered} 0.51 \\ (0.50) \end{gathered}$ | $\begin{gathered} 0.00 \\ (0.00) \end{gathered}$ | $\begin{gathered} 1.00 \\ (0.00) \end{gathered}$ | $\begin{gathered} 0.00 \\ (0.00) \end{gathered}$ | $\begin{gathered} 1.00 \\ (0.00) \end{gathered}$ | $\begin{gathered} 0.45 \\ (0.50) \end{gathered}$ | $\begin{gathered} 0.54 \\ (0.50) \end{gathered}$ |
| Ever married | $\begin{gathered} 0.53 \\ (0.50) \end{gathered}$ | $\begin{gathered} 0.49 \\ (0.50) \end{gathered}$ | $\begin{gathered} 0.56 \\ (0.50) \end{gathered}$ | $\begin{gathered} 0.41 \\ (0.49) \end{gathered}$ | $\begin{gathered} 0.63 \\ (0.48) \end{gathered}$ | $\begin{gathered} 0.44 \\ (0.50) \end{gathered}$ | $\begin{gathered} 0.67 \\ (0.47) \end{gathered}$ | $\begin{gathered} 0.57 \\ (0.50) \end{gathered}$ | $\begin{gathered} 0.56 \\ (0.50) \end{gathered}$ |
| Years of education | $\begin{gathered} 7.85 \\ (3.57) \end{gathered}$ | $\begin{gathered} 7.97 \\ (3.67) \end{gathered}$ | $\begin{gathered} 7.74 \\ (3.49) \end{gathered}$ | $\begin{gathered} 7.20 \\ (3.23) \end{gathered}$ | $\begin{gathered} 8.44 \\ (3.76) \end{gathered}$ | $\begin{gathered} 7.09 \\ (3.02) \end{gathered}$ | $\begin{gathered} 8.37 \\ (3.79) \end{gathered}$ | $\begin{gathered} 8.16 \\ (2.97) \end{gathered}$ | $\begin{gathered} 7.58 \\ (3.70) \end{gathered}$ |
| Protestant | $\begin{gathered} 0.63 \\ (0.48) \end{gathered}$ | $\begin{gathered} 0.57 \\ (0.50) \end{gathered}$ | $\begin{gathered} 0.69 \\ (0.46) \end{gathered}$ | $\begin{gathered} 0.67 \\ (0.47) \end{gathered}$ | $\begin{gathered} 0.60 \\ (0.49) \end{gathered}$ | $\begin{gathered} 0.72 \\ (0.45) \end{gathered}$ | $\begin{gathered} 0.65 \\ (0.48) \end{gathered}$ | $\begin{gathered} 0.67 \\ (0.47) \end{gathered}$ | $\begin{gathered} 0.70 \\ (0.46) \end{gathered}$ |
| Catholic | $\begin{gathered} 0.26 \\ (0.44) \end{gathered}$ | $\begin{gathered} 0.26 \\ (0.44) \end{gathered}$ | $\begin{gathered} 0.25 \\ (0.44) \end{gathered}$ | $\begin{gathered} 0.25 \\ (0.43) \end{gathered}$ | $\begin{gathered} 0.27 \\ (0.44) \end{gathered}$ | $\begin{gathered} 0.24 \\ (0.43) \end{gathered}$ | $\begin{gathered} 0.26 \\ (0.44) \end{gathered}$ | $\begin{gathered} 0.33 \\ (0.47) \end{gathered}$ | $\begin{gathered} 0.22 \\ (0.42) \end{gathered}$ |
| Luo | $\begin{gathered} 0.11 \\ (0.31) \end{gathered}$ | $\begin{gathered} 0.03 \\ (0.18) \end{gathered}$ | $\begin{gathered} 0.17 \\ (0.37) \end{gathered}$ | $\begin{gathered} 0.12 \\ (0.33) \end{gathered}$ | $\begin{gathered} 0.09 \\ (0.29) \end{gathered}$ | $\begin{gathered} 0.19 \\ (0.39) \end{gathered}$ | $\begin{gathered} 0.14 \\ (0.35) \end{gathered}$ | $\begin{gathered} 0.50 \\ (0.50) \end{gathered}$ | $\begin{gathered} 0.03 \\ (0.16) \end{gathered}$ |
| Household asset index | $\begin{aligned} & -2.22 \\ & (7.77) \end{aligned}$ | $\begin{aligned} & -0.56 \\ & (8.62) \end{aligned}$ | $\begin{gathered} 3.60 \\ (6.70) \end{gathered}$ | $\begin{gathered} 2.65 \\ (7.78) \end{gathered}$ | $\begin{gathered} 1.84 \\ (7.75) \end{gathered}$ | $\begin{gathered} 3.94 \\ (6.45) \end{gathered}$ | $\begin{gathered} 3.28 \\ (6.91) \end{gathered}$ | $\begin{gathered} 2.91 \\ (7.27) \end{gathered}$ | $\begin{gathered} 3.86 \\ (6.44) \end{gathered}$ |
| Community Characteristics |  |  |  |  |  |  |  |  |  |
| Urban | $\begin{gathered} 0.20 \\ (0.40) \end{gathered}$ | $\begin{gathered} 0.20 \\ (0.40) \end{gathered}$ | $\begin{gathered} 0.19 \\ (0.40) \end{gathered}$ | $\begin{gathered} 0.19 \\ (0.39) \end{gathered}$ | $\begin{gathered} 0.21 \\ (0.41) \end{gathered}$ | $\begin{gathered} 0.19 \\ (0.39) \end{gathered}$ | $\begin{gathered} 0.20 \\ (0.40) \end{gathered}$ | $\begin{gathered} 0.22 \\ (0.42) \end{gathered}$ | $\begin{gathered} 0.18 \\ (0.39) \end{gathered}$ |
| Population ratio (M/F) | $\begin{gathered} 3.41 \\ (1.81) \end{gathered}$ | $\begin{gathered} 3.72 \\ (1.58) \end{gathered}$ | $\begin{gathered} 3.16 \\ (1.95) \end{gathered}$ | $\begin{gathered} 3.33 \\ (1.74) \end{gathered}$ | $\begin{gathered} 3.48 \\ (1.87) \end{gathered}$ | $\begin{gathered} 3.07 \\ (1.81) \end{gathered}$ | $\begin{gathered} 3.24 \\ (2.06) \end{gathered}$ | $\begin{gathered} 2.70 \\ (0.70) \end{gathered}$ | $\begin{gathered} 3.38 \\ (2.32) \end{gathered}$ |

Table 1: Summary statistics

|  | (1) <br> Kenya | (2) <br> East | (3) <br> West | (4) <br> Females | (5) <br> Male | (6) <br> West <br> Females | (7) <br> West <br> Males | (8) <br> Nyanza | (9) <br> Rift Valley <br> \& Western |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Education ratio (M/F) | $\begin{gathered} 1.18 \\ (0.27) \end{gathered}$ | $\begin{gathered} 1.16 \\ (0.22) \end{gathered}$ | $\begin{gathered} 1.19 \\ (0.30) \end{gathered}$ | $\begin{gathered} 1.18 \\ (0.26) \end{gathered}$ | $\begin{gathered} 1.17 \\ (0.27) \end{gathered}$ | $\begin{gathered} 1.19 \\ (0.26) \end{gathered}$ | $\begin{gathered} 1.20 \\ (0.33) \end{gathered}$ | $\begin{gathered} 1.17 \\ (0.06) \end{gathered}$ | $\begin{gathered} 1.20 \\ (0.35) \end{gathered}$ |
| Migrant share | $\begin{gathered} 0.24 \\ (0.22) \end{gathered}$ | $\begin{gathered} 0.25 \\ (0.22) \end{gathered}$ | $\begin{gathered} 0.23 \\ (0.23) \end{gathered}$ | $\begin{gathered} 0.24 \\ (0.23) \end{gathered}$ | $\begin{gathered} 0.24 \\ (0.22) \end{gathered}$ | $\begin{gathered} 0.23 \\ (0.23) \end{gathered}$ | $\begin{gathered} 0.24 \\ (0.22) \end{gathered}$ | $\begin{gathered} 0.24 \\ (0.25) \end{gathered}$ | $\begin{gathered} 0.23 \\ (0.22) \end{gathered}$ |
| Gender inequality | $\begin{gathered} 0.39 \\ (0.87) \\ \hline \end{gathered}$ | $\begin{gathered} 0.45 \\ (1.20) \\ \hline \end{gathered}$ | $\begin{gathered} 0.33 \\ (0.44) \\ \hline \end{gathered}$ | $\begin{gathered} 0.41 \\ (0.93) \\ \hline \end{gathered}$ | $\begin{gathered} 0.36 \\ (0.81) \\ \hline \end{gathered}$ | $\begin{gathered} 0.33 \\ (0.46) \\ \hline \end{gathered}$ | $\begin{gathered} 0.33 \\ (0.42) \\ \hline \end{gathered}$ | $\begin{gathered} 0.17 \\ (0.18) \end{gathered}$ | $\begin{gathered} 0.39 \\ (0.50) \\ \hline \end{gathered}$ |
| Number of observations | 2449 | 1108 | 1341 | 1162 | 1287 | 654 | 687 | 407 | 951 |

Notes: Standard deviations are in parentheses.

Table 2: Determinants of HIV status (basic model)

|  | (1) <br> All Kenya | (2) <br> East | (3) <br> West | (4) <br> Females | (5) <br> Males |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Individual Characteristics |  |  |  |  |  |
| Age | $\begin{aligned} & 0.002 \\ & {[0.006]^{* * *}} \end{aligned}$ | $\begin{gathered} 0.000 \\ {[0.890]} \end{gathered}$ | $\begin{aligned} & 0.003 \\ & {[0.002]^{* * *}} \end{aligned}$ | $\begin{aligned} & 0.003 \\ & {[0.055]^{*}} \end{aligned}$ | $\begin{aligned} & 0.002 \\ & {[0.017] * *} \end{aligned}$ |
| Male | $\begin{aligned} & -0.032 \\ & {[0.001]^{* * *}} \end{aligned}$ | $\begin{aligned} & -0.018 \\ & {[0.094]^{*}} \end{aligned}$ | $\begin{aligned} & -0.039 \\ & {[0.008]^{* * *}} \end{aligned}$ |  |  |
| Ever married | $\begin{gathered} 0.012 \\ {[0.191]} \end{gathered}$ | $\begin{gathered} 0.028 \\ {[0.004]^{* * *}} \end{gathered}$ | $\begin{gathered} 0.002 \\ {[0.891]} \end{gathered}$ | $\begin{gathered} 0.015 \\ {[0.164]} \end{gathered}$ | $\begin{gathered} 0.008 \\ {[0.555]} \end{gathered}$ |
| Years of education | $\begin{aligned} & -0.001 \\ & {[0.214]} \end{aligned}$ | $\begin{aligned} & -0.001 \\ & {[0.418]} \end{aligned}$ | $\begin{aligned} & -0.001 \\ & {[0.385]} \end{aligned}$ | $\begin{aligned} & -0.002 \\ & {[0.083]^{*}} \end{aligned}$ | $\begin{aligned} & -0.001 \\ & {[0.617]} \end{aligned}$ |
| Male currently in school | $\begin{gathered} 0.003 \\ {[0.893]} \end{gathered}$ | $\begin{gathered} 0.046 \\ {[0.197]} \end{gathered}$ | $\begin{aligned} & -0.015 \\ & {[0.640]} \end{aligned}$ |  | $\begin{gathered} 0.004 \\ {[0.896]} \end{gathered}$ |
| Female currently in school | $\begin{aligned} & -0.039 \\ & {[0.001]^{* * *}} \end{aligned}$ | $\begin{aligned} & -0.023 \\ & {[0.013]^{* *}} \end{aligned}$ | $\begin{aligned} & -0.048 \\ & {[0.007]^{* * *}} \end{aligned}$ | $\begin{gathered} -0.036 \\ {[0.010]^{* * *}} \end{gathered}$ |  |
| Protestant | $\begin{aligned} & -0.014 \\ & {[0.229]} \end{aligned}$ | $\begin{aligned} & -0.013 \\ & {[0.301]} \end{aligned}$ | $\begin{aligned} & -0.013 \\ & {[0.472]} \end{aligned}$ | $\begin{gathered} 0.001 \\ {[0.930]} \end{gathered}$ | $\begin{aligned} & -0.026 \\ & {[0.080]^{*}} \end{aligned}$ |
| Catholic | $\begin{aligned} & -0.021 \\ & {[0.057] *} \end{aligned}$ | $\begin{aligned} & -0.013 \\ & {[0.260]} \end{aligned}$ | $\begin{aligned} & -0.027 \\ & {[0.111]} \end{aligned}$ | $\begin{aligned} & -0.006 \\ & {[0.702]} \end{aligned}$ | $\begin{aligned} & -0.031 \\ & {[0.020]^{* *}} \end{aligned}$ |
| Luo | $\begin{aligned} & 0.114 \\ & {[0.000]^{* * *}} \end{aligned}$ | $\begin{gathered} 0.042 \\ {[0.127]} \end{gathered}$ | $\begin{aligned} & 0.134 \\ & {[0.000]^{* * *}} \end{aligned}$ | $\begin{gathered} 0.058 \\ {[0.006]^{* * *}} \end{gathered}$ | $\begin{gathered} 0.188 \\ {[0.000]^{* * *}} \end{gathered}$ |
| Household asset index | $\begin{aligned} & 0.001 \\ & {[0.038]^{* *}} \end{aligned}$ | $\begin{gathered} 0.000 \\ {[0.376]} \end{gathered}$ | $\begin{gathered} 0.002 \\ {[0.074]^{*}} \end{gathered}$ | $\begin{aligned} & 0.001 \\ & {[0.030]^{* *}} \end{aligned}$ | $\begin{gathered} 0.001 \\ {[0.487]} \end{gathered}$ |
| Community characteristics |  |  |  |  |  |
| Urban | $\begin{gathered} 0.014 \\ {[0.170]} \end{gathered}$ | $\begin{aligned} & -0.003 \\ & {[0.729]} \end{aligned}$ | $\begin{gathered} 0.018 \\ {[0.286]} \end{gathered}$ | $\begin{gathered} 0.009 \\ {[0.382]} \end{gathered}$ | $\begin{gathered} 0.019 \\ {[0.324]} \end{gathered}$ |
| Population ratio (M/F) | $\begin{aligned} & -0.003 \\ & {[0.229]} \end{aligned}$ | $\begin{aligned} & -0.002 \\ & {[0.496]} \end{aligned}$ | $\begin{aligned} & -0.003 \\ & {[0.304]} \end{aligned}$ | $\begin{aligned} & -0.004 \\ & {[0.112]} \end{aligned}$ | $\begin{aligned} & -0.002 \\ & {[0.560]} \end{aligned}$ |
| Education ratio (M/F) | $\begin{aligned} & -0.032 \\ & {[0.116]} \end{aligned}$ | $\begin{aligned} & -0.041 \\ & {[0.116]} \end{aligned}$ | $\begin{aligned} & -0.029 \\ & {[0.166]} \end{aligned}$ | $\begin{aligned} & -0.047 \\ & {[0.071]^{*}} \end{aligned}$ | $\begin{aligned} & -0.024 \\ & {[0.265]} \end{aligned}$ |
| Migrant share | $\begin{aligned} & 0.026 \\ & {[0.100] *} \end{aligned}$ | $\begin{gathered} 0.004 \\ {[0.803]} \end{gathered}$ | $\begin{gathered} 0.030 \\ {[0.202]} \end{gathered}$ | $\begin{gathered} 0.020 \\ {[0.230]} \end{gathered}$ | $\begin{gathered} 0.031 \\ {[0.219]} \end{gathered}$ |
| Gender inequality | $\begin{gathered} 0.007 \\ {[0.078]^{*}} \end{gathered}$ | $\begin{aligned} & -0.001 \\ & {[0.714]} \end{aligned}$ | $\begin{aligned} & 0.030 \\ & {[0.006]^{* * *}} \end{aligned}$ | $\begin{gathered} 0.007 \\ {[0.099] *} \end{gathered}$ | $\begin{gathered} 0.006 \\ {[0.274]} \end{gathered}$ |
| Pseudo R-squared | 0.197 | 0.121 1108 | 0.226 1341 | 0.229 1162 | 0.188 1287 |
| Number of observations | 2449 | 1108 | 1341 | 1162 | 1287 |

Notes: Probit regression models, marginal effects reported. Specifications include province dummies. Robust pvalues are in brackets. * denotes statistical significance at the $10 \%$ level; ** at $5 \%$, and ${ }^{* * *}$ at $1 \%$. Females 15-24 years and males 20-39 years.

Table 3: Determinants of HIV status (basic model), Western Kenya

|  |  | (2) <br> Males | (3) <br> Nyanza | (4) Rift Valley \& Western |
| :---: | :---: | :---: | :---: | :---: |
| Individual Characteristics |  |  |  |  |
| Age | $\begin{gathered} 0.005 \\ {[0.018]^{* *}} \end{gathered}$ | $\begin{aligned} & 0.003 \\ & {[0.013]^{* *}} \end{aligned}$ | $\begin{aligned} & 0.010 \\ & {[0.004]^{* * *}} \end{aligned}$ | $\begin{gathered} 0.002 \\ {[0.057]^{*}} \end{gathered}$ |
| Male |  |  | $\begin{aligned} & -0.109 \\ & {[0.019]^{* *}} \end{aligned}$ | $\begin{aligned} & -0.019 \\ & {[0.263]} \end{aligned}$ |
| Ever married | $\begin{gathered} 0.004 \\ {[0.753]} \end{gathered}$ | $\begin{aligned} & -0.001 \\ & {[0.967]} \end{aligned}$ | $\begin{gathered} 0.066 \\ {[0.119]} \end{gathered}$ | $\begin{gathered} 0.003 \\ {[0.853]} \end{gathered}$ |
| Years of education | $\begin{aligned} & -0.001 \\ & {[0.366]} \end{aligned}$ | $\begin{aligned} & -0.002 \\ & {[0.405]} \end{aligned}$ | $\begin{gathered} 0.005 \\ {[0.387]} \end{gathered}$ | $\begin{aligned} & -0.002 \\ & {[0.267]} \end{aligned}$ |
| Currently in school | $\begin{aligned} & -0.035 \\ & {[0.043]^{* *}} \end{aligned}$ | $\begin{aligned} & -0.021 \\ & {[0.596]} \end{aligned}$ |  |  |
| Protestant | $\begin{aligned} & -0.007 \\ & {[0.741]} \end{aligned}$ | $\begin{aligned} & -0.030 \\ & {[0.213]} \end{aligned}$ | $\begin{gathered} 0.082 \\ {[0.010]^{* *}} \end{gathered}$ | $\begin{aligned} & -0.019 \\ & {[0.241]} \end{aligned}$ |
| Catholic | $\begin{aligned} & -0.020 \\ & {[0.255]} \end{aligned}$ | $\begin{aligned} & -0.032 \\ & {[0.096]^{*}} \end{aligned}$ |  | $\begin{aligned} & -0.015 \\ & {[0.298]} \end{aligned}$ |
| Luo | $\begin{aligned} & 0.038 \\ & {[0.044]^{* *}} \end{aligned}$ | $\begin{aligned} & 0.271 \\ & {[0.000]^{* * *}} \end{aligned}$ | $\begin{aligned} & 0.186 \\ & {[0.000]^{* * *}} \end{aligned}$ | $\begin{gathered} 0.068 \\ {[0.021]^{* *}} \end{gathered}$ |
| Household asset index | $\begin{gathered} 0.002 \\ {[0.082]^{*}} \end{gathered}$ | $\begin{gathered} 0.001 \\ {[0.532]} \end{gathered}$ | $\begin{gathered} 0.002 \\ {[0.548]} \end{gathered}$ | $\begin{aligned} & 0.002 \\ & {[0.002]^{* * *}} \end{aligned}$ |
| Community Characteristics |  |  |  |  |
| Urban | $\begin{gathered} 0.005 \\ {[0.763]} \end{gathered}$ | $\begin{gathered} 0.029 \\ {[0.353]} \end{gathered}$ | $\begin{aligned} & -0.011 \\ & {[0.825]} \end{aligned}$ | $\begin{gathered} 0.022 \\ {[0.176]} \end{gathered}$ |
| Population ratio (M/F) | $\begin{aligned} & -0.008 \\ & {[0.107]} \end{aligned}$ | $\begin{aligned} & -0.002 \\ & {[0.659]} \end{aligned}$ | $\begin{gathered} 0.013 \\ {[0.460]} \end{gathered}$ | $\begin{aligned} & -0.003 \\ & {[0.337]} \end{aligned}$ |
| Education ratio (M/F) | $\begin{aligned} & -0.041 \\ & {[0.230]} \end{aligned}$ | $\begin{aligned} & -0.018 \\ & {[0.311]} \end{aligned}$ | $\begin{gathered} 0.213 \\ {[0.423]} \end{gathered}$ | $\begin{aligned} & -0.027 \\ & {[0.223]} \end{aligned}$ |
| Migrant share | $\begin{gathered} 0.011 \\ {[0.588]} \end{gathered}$ | $\begin{gathered} 0.051 \\ {[0.173]} \end{gathered}$ | $\begin{gathered} 0.079 \\ {[0.283]} \end{gathered}$ | $\begin{gathered} 0.028 \\ {[0.140]} \end{gathered}$ |
| Gender inequality | $\begin{gathered} 0.028 \\ {[0.007]^{* * *}} \end{gathered}$ | $\begin{gathered} 0.021 \\ {[0.294]} \\ \hline \end{gathered}$ | $\begin{aligned} & -0.026 \\ & {[0.823]} \\ & \hline \end{aligned}$ | $\begin{gathered} 0.028 \\ {[0.003]^{* * *}} \end{gathered}$ |
| Pseudo R-squared | 0.270 | 0.237 | 0.235 | 0.139 |
| Number of observations | 654 | 687 | 407 | 951 |

Notes: Probit regression models, marginal effects reported. Specifications include province dummies. Robust p-values are in brackets. * denotes statistical significance at the $10 \%$ level; ** at $5 \%$, and ${ }^{* * *}$ at $1 \%$. Females 15-24 years and males 20-39 years.

Table 4: Determinants of HIV status (interacted model)

|  | (1) <br> All Kenya | (2) <br> East | (3) <br> West | (4) <br> Males | $\overline{(5)}$ <br> Females |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Individual Characteristics |  |  |  |  |  |  |
| Age | $\begin{aligned} & 0.003 \\ & {[0.000]^{* * *}} \end{aligned}$ | $\begin{gathered} 0.000 \\ {[0.686]} \end{gathered}$ | $\begin{aligned} & 0.004 \\ & {[0.000]^{* * *}} \end{aligned}$ | $\begin{aligned} & 0.002 \\ & {[0.026]^{* *}} \end{aligned}$ | $\begin{aligned} & 0.004 \\ & {[0.002]^{* * *}} \end{aligned}$ | $\begin{aligned} & 0.004 \\ & {[0.002]^{* * *}} \end{aligned}$ |
| Male | $\begin{aligned} & -0.035 \\ & {[0.000]^{* * *}} \end{aligned}$ | $\begin{aligned} & -0.019 \\ & {[0.053]^{*}} \end{aligned}$ | $\begin{aligned} & -0.037 \\ & {[0.007]^{* * *}} \end{aligned}$ |  |  |  |
| Ever married | $\begin{gathered} 0.009 \\ {[0.347]} \end{gathered}$ | $\begin{aligned} & 0.026 \\ & {[0.009]^{* * *}} \end{aligned}$ | $\begin{aligned} & -0.005 \\ & {[0.727]} \end{aligned}$ | $\begin{gathered} 0.018 \\ {[0.165]} \end{gathered}$ | $\begin{gathered} 0.003 \\ {[0.697]} \end{gathered}$ | $\begin{aligned} & -0.008 \\ & {[0.278]} \end{aligned}$ |
| Years of education | $\begin{aligned} & -0.002 \\ & {[0.016]^{* *}} \end{aligned}$ | $\begin{aligned} & -0.001 \\ & {[0.332]} \end{aligned}$ | $\begin{aligned} & -0.003 \\ & {[0.026]^{* *}} \end{aligned}$ | $\begin{aligned} & -0.002 \\ & {[0.120]} \end{aligned}$ | $\begin{aligned} & -0.003 \\ & {[0.006]^{* * *}} \end{aligned}$ | $\begin{aligned} & -0.001 \\ & {[0.107]} \end{aligned}$ |
| Male currently in school | $\begin{gathered} 0.008 \\ {[0.720]} \end{gathered}$ |  | $\begin{gathered} -0.009 \\ {[0.714]} \end{gathered}$ | $\begin{gathered} 0.010 \\ {[0.728]} \end{gathered}$ |  |  |
| Female currently in school | $\begin{aligned} & -0.028 \\ & {[0.067]^{*}} \end{aligned}$ | $\begin{aligned} & -0.020 \\ & {[0.020]^{* *}} \end{aligned}$ | $\begin{gathered} -0.028 \\ {[0.193]} \end{gathered}$ |  | $\begin{aligned} & -0.017 \\ & {[0.213]} \end{aligned}$ | $\begin{aligned} & -0.012 \\ & {[0.313]} \end{aligned}$ |
| Protestant | $\begin{aligned} & -0.020 \\ & {[0.070]^{*}} \end{aligned}$ | $\begin{aligned} & -0.020 \\ & {[0.130]} \end{aligned}$ | $\begin{gathered} -0.009 \\ {[0.653]} \end{gathered}$ | $\begin{aligned} & -0.026 \\ & {[0.044]^{* *}} \end{aligned}$ | $\begin{aligned} & -0.004 \\ & {[0.734]} \end{aligned}$ | $\begin{aligned} & -0.003 \\ & {[0.790]} \end{aligned}$ |
| Catholic | $\begin{aligned} & -0.026 \\ & {[0.005]^{* * *}} \end{aligned}$ | $\begin{aligned} & -0.014 \\ & {[0.195]} \end{aligned}$ | $\begin{aligned} & -0.027 \\ & {[0.080]^{*}} \end{aligned}$ | $\begin{aligned} & -0.037 \\ & {[0.001]^{* * *}} \end{aligned}$ | $\begin{aligned} & -0.009 \\ & {[0.412]} \end{aligned}$ | $\begin{aligned} & -0.010 \\ & {[0.214]} \end{aligned}$ |
| Luo | $\begin{aligned} & 0.141 \\ & {[0.000]^{* * *}} \end{aligned}$ | $\begin{gathered} 0.073 \\ {[0.249]} \end{gathered}$ | $\begin{aligned} & 0.138 \\ & {[0.000]^{* * *}} \end{aligned}$ | $\begin{aligned} & 0.255 \\ & {[0.000]^{* * *}} \end{aligned}$ | $\begin{gathered} 0.047 \\ {[0.037]^{* *}} \end{gathered}$ | $\begin{gathered} 0.011 \\ {[0.323]} \end{gathered}$ |
| Household asset index | $\begin{gathered} 0.001 \\ {[0.041]^{* *}} \end{gathered}$ | $\begin{gathered} 0.000 \\ {[0.368]} \end{gathered}$ | $\begin{gathered} 0.002 \\ {[0.055]^{*}} \end{gathered}$ | $\begin{gathered} 0.000 \\ {[0.543]} \end{gathered}$ | $\begin{gathered} 0.001 \\ {[0.021]^{* *}} \end{gathered}$ | $\begin{aligned} & 0.002 \\ & {[0.009]^{* * *}} \end{aligned}$ |
| Community Characteristics |  |  |  |  |  |  |
| Urban | $\begin{gathered} 0.015 \\ {[0.231]} \end{gathered}$ | $\begin{gathered} 0.001 \\ {[0.930]} \end{gathered}$ | $\begin{gathered} 0.024 \\ {[0.251]} \end{gathered}$ | $\begin{gathered} 0.024 \\ {[0.268]} \end{gathered}$ | $\begin{gathered} 0.004 \\ {[0.684]} \end{gathered}$ | $\begin{aligned} & -0.006 \\ & {[0.408]} \end{aligned}$ |
| Population ratio (M/F) | $\begin{aligned} & -0.002 \\ & {[0.294]} \end{aligned}$ | $\begin{aligned} & -0.003 \\ & {[0.286]} \end{aligned}$ | $\begin{aligned} & -0.001 \\ & {[0.643]} \end{aligned}$ | $\begin{gathered} 0.001 \\ {[0.661]} \end{gathered}$ | $\begin{aligned} & -0.005 \\ & {[0.044]^{* *}} \end{aligned}$ | $\begin{aligned} & -0.007 \\ & {[0.034]^{* *}} \end{aligned}$ |
| Education ratio (M/F) | $\begin{aligned} & -0.053 \\ & {[0.013]^{* *}} \end{aligned}$ | $\begin{aligned} & -0.082 \\ & {[0.034]^{* *}} \end{aligned}$ | $\begin{gathered} -0.057 \\ {[0.108]} \end{gathered}$ | $\begin{aligned} & -0.066 \\ & {[0.044]^{* *}} \end{aligned}$ | $\begin{aligned} & -0.021 \\ & {[0.221]} \end{aligned}$ | $\begin{gathered} 0.026 \\ {[0.219]} \end{gathered}$ |
| Migrant share | $\begin{gathered} 0.020 \\ {[0.226]} \end{gathered}$ | $\begin{gathered} 0.016 \\ {[0.346]} \end{gathered}$ | $\begin{gathered} 0.021 \\ {[0.370]} \end{gathered}$ | $\begin{gathered} 0.024 \\ {[0.303]} \end{gathered}$ | $\begin{gathered} 0.010 \\ {[0.436]} \end{gathered}$ | $\begin{aligned} & -0.002 \\ & {[0.872]} \end{aligned}$ |
| Gender inequality | $\begin{gathered} -0.011 \\ {[0.691]} \end{gathered}$ | $\begin{aligned} & -0.028 \\ & {[0.674]} \end{aligned}$ | $\begin{gathered} -0.063 \\ {[0.563]} \end{gathered}$ | $\begin{aligned} & -0.085 \\ & {[0.120]} \end{aligned}$ | $\begin{gathered} 0.077 \\ {[0.169]} \end{gathered}$ | $\begin{gathered} 0.215 \\ {[0.059]^{*}} \end{gathered}$ |

Table 4: Determinants of HIV status (interacted model)

|  | (1) <br> All Kenya | (2) <br> East | (3) <br> West | (4) <br> Males |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Interactions with gender inequality |  |  |  |  |  |  |
| Age | $\begin{aligned} & -0.003 \\ & {[0.002]^{* * *}} \end{aligned}$ | $\begin{aligned} & -0.002 \\ & {[0.002]^{* * *}} \end{aligned}$ | $\begin{aligned} & -0.005 \\ & {[0.069]^{*}} \end{aligned}$ | $\begin{gathered} 0.000 \\ {[0.971]} \end{gathered}$ | $\begin{aligned} & -0.007 \\ & {[0.003]^{* * *}} \end{aligned}$ | $\begin{aligned} & -0.004 \\ & {[0.107]} \end{aligned}$ |
| Male | $\begin{gathered} 0.021 \\ {[0.112]} \end{gathered}$ | $\begin{gathered} 0.015 \\ {[0.068]^{*}} \end{gathered}$ | $\begin{gathered} 0.017 \\ {[0.468]} \end{gathered}$ |  |  |  |
| Ever married | $\begin{gathered} 0.009 \\ {[0.439]} \end{gathered}$ | $\begin{aligned} & -0.000 \\ & {[0.993]} \end{aligned}$ | $\begin{gathered} 0.022 \\ {[0.459]} \end{gathered}$ | $\begin{aligned} & -0.037 \\ & {[0.034]^{* *}} \end{aligned}$ | $\begin{gathered} 0.026 \\ {[0.068]^{*}} \end{gathered}$ | $\begin{gathered} 0.042 \\ {[0.097]^{*}} \end{gathered}$ |
| Years of education | $\begin{aligned} & 0.004 \\ & {[0.019]^{* *}} \end{aligned}$ | $\begin{gathered} 0.002 \\ {[0.110]} \end{gathered}$ | $\begin{aligned} & 0.008 \\ & {[0.034]^{* *}} \end{aligned}$ | $\begin{aligned} & 0.006 \\ & {[0.026]^{* *}} \end{aligned}$ | $\begin{aligned} & 0.005 \\ & {[0.002]^{* * *}} \end{aligned}$ | $\begin{aligned} & 0.003 \\ & {[0.022]^{* *}} \end{aligned}$ |
| Male currently in school | $\begin{gathered} 0.003 \\ {[0.903]} \end{gathered}$ |  | $\begin{gathered} 0.002 \\ {[0.952]} \end{gathered}$ | $\begin{gathered} 0.013 \\ {[0.636]} \end{gathered}$ |  |  |
| Female currently in school | $\begin{aligned} & -0.075 \\ & {[0.342]} \end{aligned}$ | $\begin{aligned} & -0.013 \\ & {[0.110]} \end{aligned}$ | $\begin{aligned} & -0.131 \\ & {[0.348]} \end{aligned}$ |  | $\begin{aligned} & -0.054 \\ & {[0.310]} \end{aligned}$ | $\begin{aligned} & -0.034 \\ & {[0.595]} \end{aligned}$ |
| Protestant | $\begin{aligned} & 0.018 \\ & {[0.028]^{* *}} \end{aligned}$ | $\begin{gathered} 0.014 \\ {[0.031]^{* *}} \end{gathered}$ | $\begin{gathered} 0.011 \\ {[0.850]} \end{gathered}$ | $\begin{gathered} 0.017 \\ {[0.124]} \end{gathered}$ | $\begin{gathered} 0.015 \\ {[0.411]} \end{gathered}$ | $\begin{aligned} & -0.006 \\ & {[0.762]} \end{aligned}$ |
| Catholic | $\begin{aligned} & 0.032 \\ & {[0.009]^{* * *}} \end{aligned}$ | $\begin{aligned} & -0.005 \\ & {[0.676]} \end{aligned}$ | $\begin{gathered} 0.040 \\ {[0.502]} \end{gathered}$ | $\begin{aligned} & 0.086 \\ & {[0.000]^{* * *}} \end{aligned}$ | $\begin{gathered} 0.010 \\ {[0.577]} \end{gathered}$ | $\begin{aligned} & -0.005 \\ & {[0.821]} \end{aligned}$ |
| Luo | $\begin{aligned} & -0.047 \\ & {[0.116]} \end{aligned}$ | $\begin{aligned} & -0.064 \\ & {[0.677]} \end{aligned}$ | $\begin{aligned} & -0.040 \\ & {[0.318]} \end{aligned}$ | $\begin{aligned} & -0.098 \\ & {[0.018]^{* *}} \end{aligned}$ | $\begin{aligned} & -0.004 \\ & {[0.864]} \end{aligned}$ | $\begin{gathered} 0.013 \\ {[0.467]} \end{gathered}$ |
| Household asset index | $\begin{aligned} & -0.001 \\ & {[0.461]} \end{aligned}$ | $\begin{aligned} & -0.000 \\ & {[0.593]} \end{aligned}$ | $\begin{aligned} & -0.002 \\ & {[0.312]} \end{aligned}$ | $\begin{gathered} 0.000 \\ {[0.969]} \end{gathered}$ | $\begin{aligned} & -0.002 \\ & {[0.276]} \end{aligned}$ | $\begin{aligned} & -0.005 \\ & {[0.039]^{* *}} \end{aligned}$ |
| Urban | $\begin{gathered} 0.029 \\ {[0.143]} \end{gathered}$ | $\begin{gathered} 0.098 \\ {[0.354]} \end{gathered}$ | $\begin{gathered} 0.024 \\ {[0.473]} \end{gathered}$ | $\begin{gathered} 0.040 \\ {[0.170]} \end{gathered}$ | $\begin{gathered} 0.017 \\ {[0.515]} \end{gathered}$ | $\begin{aligned} & 0.067 \\ & {[0.008]^{* * *}} \end{aligned}$ |
| Population ratio (M/F) | $\begin{gathered} 0.004 \\ {[0.013]^{* *}} \end{gathered}$ | $\begin{aligned} & 0.007 \\ & {[0.002]^{* * *}} \end{aligned}$ | $\begin{gathered} 0.000 \\ {[0.981]} \end{gathered}$ | $\begin{aligned} & -0.009 \\ & {[0.037]^{* *}} \end{aligned}$ | $\begin{aligned} & 0.012 \\ & {[0.028]^{* *}} \end{aligned}$ | $\begin{gathered} 0.030 \\ {[0.027]^{* *}} \end{gathered}$ |
| Education ratio (M/F) | $\begin{gathered} 0.032 \\ {[0.111]} \end{gathered}$ | $\begin{gathered} 0.031 \\ {[0.122]} \end{gathered}$ | $\begin{gathered} 0.063 \\ {[0.393]} \end{gathered}$ | $\begin{gathered} 0.044 \\ {[0.111]} \end{gathered}$ | $\begin{aligned} & -0.007 \\ & {[0.752]} \end{aligned}$ | $\begin{aligned} & -0.272 \\ & {[0.010]^{* * *}} \end{aligned}$ |
| Migrant share | $\begin{aligned} & -0.008 \\ & {[0.518]} \end{aligned}$ | $\begin{aligned} & -0.051 \\ & {[0.005]^{* * *}} \end{aligned}$ | $\begin{aligned} & -0.003 \\ & {[0.906]} \end{aligned}$ | $\begin{aligned} & -0.011 \\ & {[0.716]} \end{aligned}$ | $\begin{aligned} & -0.015 \\ & {[0.387]} \end{aligned}$ | $\begin{gathered} 0.048 \\ {[0.089]^{*}} \end{gathered}$ |
| Pseudo R-squared | 0.216 | 0.143 | 0.250 | 0.276 | 0.218 | 0.326 |
| Observations | 2449 | 1108 | 1341 | 1287 | 1162 | 654 |

[^1]Table 5: Determinants of HIV status, controlling for community poverty rate

|  | (1) | (2) | (3) | (4) | (5) | (6) | (7) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Kenya | East | West | Females | Male | West Females | West <br> Males |
| Individual Characteristics |  |  |  |  |  |  |  |
| Age | 0.002 | 0.000 | 0.003 | 0.003 | 0.002 | 0.005 | 0.003 |
|  | [0.006]*** | [0.966] | [0.002]*** | [0.055]* | [0.022]** | [0.019]** | [0.016]** |
| Male | -0.032 | -0.018 | -0.040 |  |  |  |  |
|  | [0.001]*** | [0.094]* | [0.005]*** |  |  |  |  |
| Ever married | 0.012 | 0.029 | 0.002 | 0.015 | 0.009 | 0.004 | 0.000 |
|  | [0.194] | [0.002]*** | [0.913] | [0.163] | [0.498] | [0.723] | [0.992] |
| Years of education | -0.001 | -0.001 | -0.001 | -0.002 | -0.001 | -0.001 | -0.001 |
|  | [0.241] | [0.398] | [0.423] | [0.084]* | [0.725] | [0.359] | [0.495] |
| Male currently in school | 0.003 | 0.045 | -0.014 |  | 0.005 |  | -0.017 |
|  | [0.888] | [0.199] | [0.645] |  | [0.861] |  | [0.631] |
| Female currently in school | -0.038 | -0.023 | -0.047 | -0.036 |  | -0.035 |  |
|  | [0.001]*** | [0.012]** | [0.006]*** | [0.010]** |  | [0.044]** |  |
| Protestant | -0.014 | -0.013 | -0.013 | 0.001 | -0.027 | -0.007 | -0.033 |
|  | [0.216] | [0.302] | [0.451] | [0.930] | [0.067]* | [0.739] | [0.177] |
| Catholic | -0.021 | -0.013 | -0.027 | -0.006 | -0.030 | -0.021 | -0.031 |
|  | [0.059]* | [0.244] | [0.113] | [0.704] | [0.026]** | [0.258] | [0.117] |
| Luo | 0.109 | 0.040 | 0.130 | 0.058 | 0.174 | 0.040 | 0.254 |
|  | [0.000]*** | [0.134] | [0.000]*** | [0.007]*** | [0.000]*** | [0.043]** | [0.000]*** |
| Household asset index | 0.001 | 0.000 | 0.001 | 0.001 | 0.000 | 0.002 | 0.000 |
|  | [0.139] | [0.661] | [0.182] | [0.052]* | [0.907] | [0.100]* | [0.882] |

Table 5: Determinants of HIV status, controlling for community poverty rate

|  | (1) | (2) | (3) | (4) | (5) | (6) | (7) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Kenya | East | West | Females | Male | West <br> Females | West <br> Males |
| Community Characteristics |  |  |  |  |  |  |  |
| Urban | 0.017 | -0.001 | 0.020 | 0.009 | 0.025 | 0.003 | 0.038 |
|  | [0.136] | [0.954] | [0.271] | [0.428] | [0.200] | [0.833] | [0.227] |
| Population ratio (M/F) | -0.003 | -0.003 | -0.004 | -0.004 | -0.003 | -0.008 | -0.003 |
|  | [0.189] | [0.234] | [0.283] | [0.108] | [0.424] | [0.119] | [0.541] |
| Education ratio (M/F) | -0.035 | -0.040 | -0.032 | -0.047 | -0.029 | -0.038 | -0.022 |
|  | [0.112] | [0.124] | [0.185] | [0.068]* | [0.271] | [0.240] | [0.297] |
| Migrant share | 0.025 | 0.000 | 0.029 | 0.020 | 0.029 | 0.011 | 0.046 |
|  | [0.111] | [0.974] | [0.206] | [0.224] | [0.242] | [0.592] | [0.197] |
| Poverty | -0.036 | -0.043 | -0.032 | 0.003 | -0.081 | 0.016 | -0.095 |
|  | [0.168] | [0.074]* | [0.464] | [0.920] | [0.026]** | [0.710] | [0.092]* |
| Gender inequality | 0.007 | -0.001 | 0.029 | 0.007 | 0.006 | 0.028 | 0.022 |
|  | [0.081]* | [0.772] | [0.007]*** | [0.099]* | [0.240] | [0.006]*** | [0.266] |
| Pseudo R-squared | 0.192 | 0.121 | 0.220 | 0.228 | 0.181 | 0.270 | 0.225 |
| Number of observations | 2449 | 1108 | 1341 | 1162 | 1287 | 654 | 687 |

Notes: Probit regression models, marginal effects reported. Specifications include province dummies. Robust p-values are in brackets. * denotes statistical significance at the $10 \%$ level; ${ }^{* *}$ at $5 \%$, and ${ }^{* * *}$ at $1 \%$. Females $15-24$ years and males $20-39$ years.

Table 6: Determinants of HIV status (basic model), ages 15-49

|  | (1) | (2) | (3) | (4) | (5) | (6) | (7) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Kenya | East | West | Females | Male | West <br> Females | West <br> Males |
| Individual Characteristics |  |  |  |  |  |  |  |
| Age | 0.000 | -0.001 | 0.001 | -0.000 | 0.000 | 0.001 | 0.001 |
|  | [0.353] | [0.272] | [0.090]* | [0.951] | [0.199] | [0.528] | [0.071]* |
| Male | -0.031 | -0.034 | -0.027 |  |  |  |  |
|  | [0.000]*** | [0.000]*** | [0.001]*** |  |  |  |  |
| Ever married | 0.018 | 0.026 | 0.012 | 0.014 | 0.020 | 0.003 | 0.016 |
|  | [0.066]* | [0.025]** | [0.384] | [0.391] | [0.022]** | [0.895] | [0.114] |
| Years of education | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | -0.000 | -0.000 |
|  | [0.679] | [0.701] | [0.887] | [0.998] | [0.790] | [0.962] | [0.911] |
| Male currently in school | -0.038 | -0.008 | -0.053 |  | -0.021 |  | -0.035 |
|  | [0.001]*** | [0.624] | [0.000]*** |  | [0.030]** |  | [0.001]*** |
| Female currently in school | -0.046 | -0.036 | -0.047 | -0.078 |  | -0.087 |  |
|  | [0.000]*** | [0.001]*** | [0.004]*** | [0.000]*** |  | [0.001]*** |  |
| Protestant | -0.010 | 0.003 | -0.027 | 0.003 | -0.017 | -0.043 | -0.017 |
|  | [0.390] | [0.803] | [0.106] | [0.894] | [0.066]* | [0.295] | [0.151] |
| Catholic | -0.015 | -0.010 | -0.023 | -0.006 | -0.017 | -0.038 | -0.013 |
|  | [0.219] | [0.472] | [0.134] | [0.815] | [0.039]** | [0.258] | [0.197] |
| Luo | 0.133 | 0.064 | 0.138 | 0.136 | 0.135 | 0.134 | 0.166 |
|  | [0.000]*** | [0.008]*** | [0.000]*** | [0.000]*** | [0.000]*** | [0.000]*** | [0.000]*** |
| Household asset index | 0.001 | 0.001 | 0.002 | 0.002 | 0.000 | 0.003 | 0.000 |
|  | [0.013]** | [0.115] | [0.075]* | [0.003]*** | [0.559] | [0.042]** | [0.608] |

Table 6: Determinants of HIV status (basic model), ages 15-49

|  | $\mathbf{( 1 )}$ | $\mathbf{( 2 )}$ | $\mathbf{( 3 )}$ | $\mathbf{( 4 )}$ | $\mathbf{( 5 )}$ | $\mathbf{( 6 )}$ <br> West <br> Females | $\mathbf{( 7 )}$ <br> West <br> Males |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Kenya | East | West | Females | Male |  |  |
| Community Characteristics |  |  |  |  |  |  |  |
| Urban | 0.012 | -0.009 | 0.019 | 0.008 | 0.015 | 0.015 | 0.019 |
|  | $[0.262]$ | $[0.337]$ | $[0.299]$ | $[0.566]$ | $[0.238]$ | $[0.531]$ | $[0.287]$ |
| Population ratio (M/F) | -0.001 | -0.003 | -0.000 | -0.001 | -0.001 | -0.000 | -0.000 |
|  | $[0.569]$ | $[0.188]$ | $[0.904]$ | $[0.741]$ | $[0.560]$ | $[0.988]$ | $[0.873]$ |
| Education ratio (M/F) | -0.020 | -0.047 | -0.016 | -0.044 | -0.004 | -0.040 | -0.001 |
|  | $[0.118]$ | $[0.052]^{*}$ | $[0.249]$ | $[0.054]^{*}$ | $[0.669]$ | $[0.125]$ | $[0.938]$ |
| Migrant share | 0.009 | -0.008 | 0.015 | 0.001 | 0.016 | 0.001 | 0.020 |
|  | $[0.580]$ | $[0.657]$ | $[0.540]$ | $[0.980]$ | $[0.272]$ | $[0.970]$ | $[0.243]$ |
| Gender inequality | 0.005 | -0.003 | 0.016 | 0.008 | 0.001 | 0.027 | 0.007 |
|  | $[0.231]$ | $[0.346]$ | $[0.063]^{*}$ | $[0.176]$ | $[0.673]$ | $[0.057]^{*}$ | $[0.500]$ |
| Pseudo R-squared | 0.149 | 0.085 | 0.182 | 0.114 | 0.200 | 0.142 | 0.248 |
| Number of observations | 5110 | 2370 | 2740 | 2709 | 2401 | 1445 | 1295 |

Notes: Probit regression models, marginal effects reported. Specifications include province dummies. Robust p-values are in brackets. * denotes statistical significance at the $10 \%$ level; ${ }^{* *}$ at $5 \%$, and ${ }^{* * *}$ at $1 \%$. Females and males $15-49$ years.

Table 7: Determinants of HIV status, alternative age/sex categories for gender inequality measure

|  | West All |  |  |  | West Females |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | (1) <br> Younger fem. /Older males | (2) <br> Older fem. Older males | (3) <br> Younger fem./ Younger males | (4) <br> Older fem./ <br> Younger males | (5) <br> Younger fem./ Older males | (6) <br> Older fem. Older males | (7) <br> Younger fem./ Younger males | (8) <br> Older fem./ <br> Younger males |
| Individual Characteristics |  |  |  |  |  |  |  |  |
| Age | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
|  | [0.090]* | [0.092]* | [0.085]* | [0.105] | [0.528] | [0.539] | [0.493] | [0.556] |
| Male | -0.027 | -0.028 | -0.027 | -0.027 |  |  |  |  |
|  | [0.001]*** | [0.001]*** | [0.001]*** | [0.001]*** |  |  |  |  |
| Ever married | 0.012 | 0.012 | 0.011 | 0.012 | 0.003 | 0.003 | 0.001 | 0.003 |
|  | [0.384] | [0.396] | [0.414] | [0.399] | [0.895] | [0.893] | [0.966] | [0.902] |
| Years of education | 0.000 | 0.000 | 0.000 | 0.000 | -0.000 | -0.000 | -0.000 | 0.000 |
|  | [0.887] | [0.849] | [0.933] | [0.788] | [0.962] | [0.991] | [0.926] | [0.943] |
| Male currently in school | -0.053 | -0.053 | -0.053 | -0.052 |  |  |  |  |
|  | [0.000]*** | [0.000]*** | [0.000]*** | [0.000]*** |  |  |  |  |
| Female currently in school | -0.047 | -0.048 | -0.048 | -0.047 | -0.087 | -0.088 | -0.089 | -0.089 |
|  | [0.004]*** | [0.003]*** | [0.003]*** | [0.003]*** | [0.001]*** | [0.001]*** | [0.001]*** | [0.001]*** |
| Protestant | -0.027 | -0.028 | -0.025 | -0.023 | -0.043 | -0.044 | -0.041 | -0.039 |
|  | [0.106] | [0.111] | [0.133] | [0.157] | [0.295] | [0.286] | [0.314] | [0.340] |
| Catholic | -0.023 | -0.023 | -0.022 | -0.022 | -0.038 | -0.039 | -0.038 | -0.036 |
|  | [0.134] | [0.142] | [0.159] | [0.157] | [0.258] | [0.258] | [0.273] | [0.284] |
| Luo | 0.138 | 0.137 | 0.135 | 0.125 | 0.134 | 0.133 | 0.130 | 0.123 |
|  | [0.000]*** | [0.000]*** | [0.000]*** | [0.000]*** | [0.000]*** | [0.000]*** | [0.000]*** | [0.000]*** |
| Household asset index | 0.002 | 0.002 | 0.002 | 0.002 | 0.003 | 0.003 | 0.003 | 0.003 |
|  | [0.075]* | [0.084]* | [0.062]* | [0.034]** | [0.042]** | [0.046]** | [0.041]** | [0.035]** |

Table 7: Determinants of HIV status, alternative age/sex categories for gender inequality measure

|  | West All |  |  |  | West Females |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | (1) <br> Younger fem. /Older males | (2) <br> Older fem./ <br> Older males | (3) <br> Younger fem. Younger males | (4) <br> Older fem./ <br> Younger males | (5) <br> Younger fem./ Older males | (6) <br> Older fem./ <br> Older males | (7) <br> Younger fem./ <br> Younger males | (8) <br> Older fem./ <br> Younger males |
| Community Characteristics |  |  |  |  |  |  |  |  |
| Urban | 0.019 | 0.020 | 0.015 | 0.003 | 0.015 | 0.014 | 0.012 | -0.000 |
|  | [0.299] | [0.288] | [0.411] | [0.825] | [0.531] | [0.555] | [0.641] | [0.992] |
| Population ratio (M/F) | -0.000 |  | -0.005 | -0.019 | -0.000 |  | -0.005 | -0.019 |
|  | [0.904] |  | [0.459] | [0.046]** | [0.988] |  | [0.594] | [0.199] |
| Education ratio (M/F) | -0.016 | -0.005 | -0.023 | -0.010 | -0.040 | -0.014 | -0.043 | -0.017 |
|  | [0.249] | [0.460] | [0.257] | [0.359] | [0.125] | [0.375] | [0.156] | [0.333] |
| Migrant share | 0.015 | 0.017 | 0.019 | 0.020 | 0.001 | 0.005 | 0.009 | 0.012 |
|  | [0.540] | [0.467] | [0.414] | [0.343] | [0.970] | [0.893] | [0.782] | [0.705] |
| Gender inequality | 0.016 | 1.277 | 0.757 | -0.964 | 0.027 | 3.529 | 2.820 | 0.027 |
|  | [0.063]* | [0.369] | [0.517] | [0.562] | [0.057]* | [0.116] | [0.170] | [0.991] |
| Pseudo R-squared | 0.182 | 0.180 | 0.181 | 0.184 | 0.142 | 0.141 | 0.141 | 0.140 |
| Number of observations | 2740 | 2740 | 2740 | 2740 | 1445 | 1445 | 1445 | 1445 |

Notes: Probit regression models, marginal effects reported. Specifications include province dummies. Robust p-values are in brackets. * denotes statistical significance at the $10 \%$ level; ${ }^{* *}$ at $5 \%$, and ${ }^{* * *}$ at $1 \%$. Females and males $15-49$ years. Community variables adjusted for the appropriate age/sex grouping.

Table 8: Determinants of multiple partners in the past 12 months

|  | (1) <br> Kenya | (2) <br> East | (3) <br> West | (4) <br> Females | (5) <br> Males | (6) <br> Females | (7) West Males |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Individual Characteristics |  |  |  |  |  |  |  |
| Age | $\begin{aligned} & -0.001 \\ & {[0.013]^{* *}} \end{aligned}$ | $\begin{aligned} & -0.001 \\ & {[0.174]} \end{aligned}$ | $\begin{aligned} & -0.002 \\ & {[0.028]^{* *}} \end{aligned}$ | $\begin{aligned} & -0.001 \\ & {[0.060]^{*}} \end{aligned}$ | $\begin{aligned} & -0.003 \\ & {[0.175]} \end{aligned}$ | $\begin{aligned} & -0.002 \\ & {[0.003]^{* * *}} \end{aligned}$ | $\begin{aligned} & -0.004 \\ & {[0.277]} \end{aligned}$ |
| Male | $\begin{aligned} & 0.109 \\ & {[0.000]^{* * *}} \end{aligned}$ | $\begin{aligned} & 0.107 \\ & {[0.000]^{* * *}} \end{aligned}$ | $\begin{aligned} & 0.141 \\ & {[0.000]^{* * *}} \end{aligned}$ |  |  |  |  |
| Ever married | $\begin{gathered} 0.007 \\ {[0.195]} \end{gathered}$ | $\begin{aligned} & -0.006 \\ & {[0.611]} \end{aligned}$ | $\begin{aligned} & 0.018 \\ & {[0.039]^{* *}} \end{aligned}$ | $\begin{aligned} & 0.012 \\ & {[0.002]^{* * *}} \end{aligned}$ | $\begin{aligned} & -0.012 \\ & {[0.622]} \end{aligned}$ | $\begin{aligned} & 0.018 \\ & {[0.003]^{* * *}} \end{aligned}$ | $\begin{gathered} 0.009 \\ {[0.816]} \end{gathered}$ |
| Years of education | $\begin{aligned} & -0.001 \\ & {[0.033]^{* *}} \end{aligned}$ | $\begin{aligned} & -0.002 \\ & {[0.142]} \end{aligned}$ | $\begin{aligned} & -0.002 \\ & {[0.103]} \end{aligned}$ | $\begin{gathered} 0.000 \\ {[0.861]} \end{gathered}$ | $\begin{aligned} & -0.007 \\ & {[0.009]^{* * *}} \end{aligned}$ | $\begin{gathered} 0.000 \\ {[0.677]} \end{gathered}$ | $\begin{aligned} & -0.007 \\ & {[0.060]^{*}} \end{aligned}$ |
| Male currently in school | $\begin{aligned} & -0.020 \\ & {[0.024]^{* *}} \end{aligned}$ | $\begin{aligned} & -0.015 \\ & {[0.618]} \end{aligned}$ | $\begin{aligned} & -0.025 \\ & {[0.019]^{* *}} \end{aligned}$ |  | $\begin{aligned} & -0.094 \\ & {[0.017]^{* *}} \end{aligned}$ |  | $\begin{aligned} & -0.132 \\ & {[0.014]^{* *}} \end{aligned}$ |
| Female currently in school | $\begin{aligned} & -0.036 \\ & {[0.000]^{* * *}} \end{aligned}$ |  | $\begin{aligned} & -0.034 \\ & {[0.006]^{* * *}} \end{aligned}$ | $\begin{aligned} & -0.013 \\ & {[0.003]^{* * *}} \end{aligned}$ |  | $\begin{aligned} & -0.007 \\ & {[0.110]} \end{aligned}$ |  |
| Protestant | $\begin{aligned} & -0.017 \\ & {[0.008]^{* * *}} \end{aligned}$ | $\begin{aligned} & -0.020 \\ & {[0.112]} \end{aligned}$ | $\begin{aligned} & -0.023 \\ & {[0.039]^{* *}} \end{aligned}$ | $\begin{aligned} & -0.001 \\ & {[0.870]} \end{aligned}$ | $\begin{aligned} & -0.074 \\ & {[0.003]^{* * *}} \end{aligned}$ | $\begin{gathered} 0.002 \\ {[0.480]} \end{gathered}$ | $\begin{aligned} & -0.115 \\ & {[0.009]^{* * *}} \end{aligned}$ |
| Catholic | $\begin{aligned} & -0.011 \\ & {[0.107]} \end{aligned}$ | $\begin{aligned} & -0.015 \\ & {[0.283]} \end{aligned}$ | $\begin{aligned} & -0.013 \\ & {[0.217]} \end{aligned}$ | $\begin{aligned} & -0.003 \\ & {[0.525]} \end{aligned}$ | $\begin{aligned} & -0.035 \\ & {[0.232]} \end{aligned}$ |  | $\begin{aligned} & -0.062 \\ & {[0.202]} \end{aligned}$ |
| Luo | $\begin{aligned} & 0.034 \\ & {[0.001]^{* * *}} \end{aligned}$ | $\begin{aligned} & -0.023 \\ & {[0.243]} \end{aligned}$ | $\begin{aligned} & 0.048 \\ & {[0.000]^{* * *}} \end{aligned}$ | $\begin{aligned} & 0.017 \\ & {[0.002]^{* * *}} \end{aligned}$ | $\begin{gathered} 0.079 \\ {[0.051]^{*}} \end{gathered}$ | $\begin{aligned} & 0.017 \\ & {[0.002]^{* * *}} \end{aligned}$ | $\begin{gathered} 0.113 \\ {[0.033]^{* *}} \end{gathered}$ |
| Household asset index | $\begin{gathered} 0.001 \\ {[0.133]} \end{gathered}$ | $\begin{gathered} 0.001 \\ {[0.391]} \end{gathered}$ | $\begin{gathered} 0.001 \\ {[0.247]} \end{gathered}$ | $\begin{gathered} 0.000 \\ {[0.996]} \end{gathered}$ | $\begin{aligned} & 0.004 \\ & {[0.012]^{* *}} \end{aligned}$ | $\begin{gathered} 0.000 \\ {[0.413]} \end{gathered}$ | $\begin{gathered} 0.004 \\ {[0.122]} \end{gathered}$ |
| Community Characteristics |  |  |  |  |  |  |  |
| Urban | $\begin{aligned} & -0.005 \\ & {[0.545]} \end{aligned}$ | $\begin{aligned} & -0.005 \\ & {[0.813]} \end{aligned}$ | $\begin{aligned} & -0.008 \\ & {[0.482]} \end{aligned}$ | $\begin{gathered} 0.004 \\ {[0.486]} \end{gathered}$ | $\begin{aligned} & -0.040 \\ & {[0.220]} \end{aligned}$ | $\begin{aligned} & -0.001 \\ & {[0.831]} \end{aligned}$ | $\begin{aligned} & -0.038 \\ & {[0.439]} \end{aligned}$ |
| Population ratio (M/F) | $\begin{gathered} -0.002 \\ {[0.298]} \end{gathered}$ | $\begin{gathered} 0.002 \\ {[0.493]} \end{gathered}$ | $\begin{aligned} & -0.003 \\ & {[0.111]} \end{aligned}$ | $\begin{gathered} 0.000 \\ {[0.761]} \end{gathered}$ | $\begin{aligned} & -0.009 \\ & {[0.135]} \end{aligned}$ | $\begin{gathered} 0.000 \\ {[0.748]} \end{gathered}$ | $\begin{aligned} & -0.017 \\ & {[0.046]^{* *}} \end{aligned}$ |
| Education ratio (M/F) | $\begin{gathered} 0.007 \\ {[0.382]} \end{gathered}$ | $\begin{gathered} 0.035 \\ {[0.183]} \end{gathered}$ | $\begin{gathered} 0.004 \\ {[0.604]} \end{gathered}$ | $\begin{aligned} & 0.007 \\ & {[0.044]^{* *}} \end{aligned}$ | $\begin{gathered} 0.013 \\ {[0.630]} \end{gathered}$ | $\begin{gathered} 0.004 \\ {[0.120]} \end{gathered}$ | $\begin{gathered} 0.004 \\ {[0.882]} \end{gathered}$ |

Table 8: Determinants of multiple partners in the past 12 months

|  | $\mathbf{( 1 )}$ | $\mathbf{( 2 )}$ | $\mathbf{( 3 )}$ | $\mathbf{( 4 )}$ | $\mathbf{( 5 )}$ | $\mathbf{( 6 )}$ <br> West <br> Females | $\mathbf{( 7 )}$ <br> West <br> Males |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Migrant share | Kenya | East | West | Females | Males | 0.002 |  |
|  | -0.006 | 0.009 | -0.017 | -0.005 | -0.001 | -0.010 | $[0.187]$ |
| Gender inequality | $[0.639]$ | $[0.736]$ | $[0.304]$ | $[0.513]$ | $[0.984]$ | $0.979]$ |  |
|  | -0.001 | -0.005 | 0.014 | 0.001 | -0.010 | 0.002 | 0.064 |
| Pseudo R-squared | $[0.718]$ | $[0.533]$ | $[0.048]^{* *}$ | $[0.235]$ | $[0.514]$ | $[0.296]$ | $[0.072]^{*}$ |
| Number of observations | 0.190 | 0.130 | 0.212 | 0.161 | 0.064 | 0.245 | 0.064 |

Notes: Probit regression models, marginal effects reported. Specifications include province dummies. Robust p-values are in brackets. * denotes statistical significance at the $10 \%$ level; ** at $5 \%$, and ${ }^{* * *}$ at $1 \%$. Females $15-24$ years and males $20-39$ years.

Table 9: Determinants of having been ever married

|  | (1) <br> Kenya | (2) <br> East | 93) <br> West | (4) <br> Females | (5) <br> Males | (6) <br> West <br> Females | (7) <br> West <br> Males |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Individual Characteristics |  |  |  |  |  |  |  |
| Age | $\begin{aligned} & 0.080 \\ & {[0.000]^{* * *}} \end{aligned}$ | $\begin{aligned} & 0.073 \\ & {[0.000]^{* * *}} \end{aligned}$ | $\begin{aligned} & 0.088 \\ & {[0.000]^{* * *}} \end{aligned}$ | $\begin{aligned} & 0.066 \\ & {[0.000]^{* * *}} \end{aligned}$ | $\begin{aligned} & 0.070 \\ & {[0.000]^{* * *}} \end{aligned}$ | $\begin{aligned} & 0.068 \\ & {[0.000]^{* * *}} \end{aligned}$ | $\begin{aligned} & 0.062 \\ & {[0.000]^{* * *}} \end{aligned}$ |
| Male | $\begin{aligned} & -0.399 \\ & {[0.000]^{* * *}} \end{aligned}$ | $\begin{aligned} & -0.386 \\ & {[0.000]^{* * *}} \end{aligned}$ | $\begin{aligned} & -0.407 \\ & {[0.000]^{* * *}} \end{aligned}$ |  |  |  |  |
| Years of education | $\begin{aligned} & -0.035 \\ & {[0.000]^{* * *}} \end{aligned}$ | $\begin{aligned} & -0.034 \\ & {[0.000]^{* * *}} \end{aligned}$ | $\begin{aligned} & -0.036 \\ & {[0.000]^{* * *}} \end{aligned}$ | $\begin{aligned} & -0.039 \\ & {[0.000]^{* * *}} \end{aligned}$ | $\begin{aligned} & -0.016 \\ & {[0.000]^{* * *}} \end{aligned}$ | $\begin{aligned} & -0.042 \\ & {[0.000]^{* * *}} \end{aligned}$ | $\begin{aligned} & -0.013 \\ & {[0.015]^{* *}} \end{aligned}$ |
| Male currently in school | $\begin{aligned} & -0.296 \\ & {[0.042]^{* *}} \end{aligned}$ |  | $\begin{aligned} & -0.336 \\ & {[0.052]^{*}} \end{aligned}$ |  | $\begin{aligned} & -0.412 \\ & {[0.020]^{* *}} \end{aligned}$ |  | $\begin{aligned} & -0.334 \\ & {[0.050]^{*}} \end{aligned}$ |
| Female currently in school | $\begin{aligned} & -0.580 \\ & {[0.000]^{* * *}} \end{aligned}$ | $\begin{aligned} & -0.509 \\ & {[0.000]^{* * *}} \end{aligned}$ | $\begin{aligned} & -0.644 \\ & {[0.000]^{* * *}} \end{aligned}$ | $\begin{aligned} & -0.508 \\ & {[0.000]^{* * *}} \end{aligned}$ |  | $\begin{aligned} & -0.577 \\ & {[0.000]^{* * *}} \end{aligned}$ |  |
| Protestant | $\begin{aligned} & -0.083 \\ & {[0.071]^{*}} \end{aligned}$ | $\begin{aligned} & -0.089 \\ & {[0.089]^{*}} \end{aligned}$ | $\begin{aligned} & -0.074 \\ & {[0.351]} \end{aligned}$ | $\begin{aligned} & -0.144 \\ & {[0.011]^{* *}} \end{aligned}$ | $\begin{aligned} & -0.015 \\ & {[0.759]} \end{aligned}$ | $\begin{gathered} 0.082 \\ {[0.021]^{* *}} \end{gathered}$ | $\begin{aligned} & -0.073 \\ & {[0.234]} \end{aligned}$ |
| Catholic | $\begin{aligned} & -0.079 \\ & {[0.096]^{*}} \end{aligned}$ | $\begin{aligned} & -0.036 \\ & {[0.511]} \end{aligned}$ | $\begin{aligned} & -0.104 \\ & {[0.198]} \end{aligned}$ | $\begin{aligned} & -0.157 \\ & {[0.002]^{* * *}} \end{aligned}$ | $\begin{gathered} 0.034 \\ {[0.526]} \end{gathered}$ |  | $\begin{aligned} & -0.004 \\ & {[0.958]} \end{aligned}$ |
| Luo | $\begin{aligned} & 0.153 \\ & {[0.001]^{* * *}} \end{aligned}$ | $\begin{aligned} & 0.304 \\ & {[0.007]^{* * *}} \end{aligned}$ | $\begin{aligned} & 0.149 \\ & {[0.008]^{* * *}} \end{aligned}$ | $\begin{aligned} & 0.122 \\ & {[0.003]^{* * *}} \end{aligned}$ | $\begin{aligned} & 0.112 \\ & {[0.048]^{* *}} \end{aligned}$ | $\begin{gathered} 0.107 \\ {[0.025]^{* *}} \end{gathered}$ | $\begin{gathered} 0.075 \\ {[0.199]} \end{gathered}$ |
| Household asset index | $\begin{aligned} & -0.006 \\ & {[0.014]^{* *}} \end{aligned}$ | $\begin{aligned} & -0.002 \\ & {[0.420]} \end{aligned}$ | $\begin{aligned} & -0.010 \\ & {[0.006]^{* * *}} \end{aligned}$ | $\begin{aligned} & -0.006 \\ & {[0.006]^{* * *}} \end{aligned}$ | $\begin{aligned} & -0.001 \\ & {[0.693]} \end{aligned}$ | $\begin{aligned} & -0.011 \\ & {[0.006]^{* * *}} \end{aligned}$ | $\begin{aligned} & -0.002 \\ & {[0.634]} \end{aligned}$ |

Table 9: Determinants of having been ever married
$\left.\begin{array}{lllllllll}\hline & \mathbf{( 1 )} & \mathbf{( 2 )} & \mathbf{9 3}) & \mathbf{( 4 )} & \mathbf{( 5 )} & \begin{array}{c}\mathbf{( 6 )} \\ \text { West }\end{array} & \begin{array}{c}\text { (7) } \\ \text { West }\end{array} \\ \text { Males }\end{array}\right]$

Notes: Probit regression models, marginal effects reported. Specifications include province dummies. Robust p-values are in brackets. * denotes statistical significance at the $10 \%$ level; ** at 5\%, and ${ }^{* * *}$ at $1 \%$. Females $15-24$ years and males 20-39 years.

Table 10: Determinants of HIV status, alternative gender inequality measures, males 20-39 females 15-24

|  | (1) | (2) | (3) | (4) | (5) | (6) | (7) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Individual Characteristics |  |  |  |  |  |  |  |
| Age | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 |
|  | [0.006]*** | [0.006]*** | [0.006]*** | [0.006]*** | [0.006]*** | [0.007]*** | [0.008]*** |
| Male | -0.032 | -0.032 | -0.031 | -0.032 | -0.031 | -0.031 | -0.030 |
|  | [0.001]*** | [0.001]*** | [0.002]*** | [0.001]*** | [0.001]*** | [0.002]*** | [0.002]*** |
| Ever married | 0.012 | 0.012 | 0.012 | 0.012 | 0.012 | 0.012 | 0.012 |
|  | [0.191] | [0.196] | [0.198] | [0.193] | [0.194] | [0.173] | [0.177] |
| Years of education | -0.001 | -0.001 | -0.001 | -0.001 | -0.001 | -0.001 | -0.001 |
|  | [0.214] | [0.233] | [0.245] | [0.226] | [0.228] | [0.224] | [0.240] |
| Male currently in school | 0.003 | 0.003 | 0.002 | 0.003 | 0.003 | 0.003 | 0.003 |
|  | [0.893] | [0.907] | [0.926] | [0.896] | [0.908] | [0.891] | [0.898] |
| Female currently in school | -0.039 | -0.039 | -0.039 | -0.039 | -0.039 | -0.038 | -0.038 |
|  | [0.001]*** | [0.001]*** | [0.001]*** | [0.001]*** | [0.001]*** | [0.001]*** | [0.001]*** |
| Protestant | -0.014 | -0.014 | -0.012 | -0.015 | -0.013 | -0.012 | -0.011 |
|  | [0.229] | [0.230] | [0.296] | [0.204] | [0.272] | [0.265] | [0.336] |
| Catholic | -0.021 | -0.021 | -0.020 | -0.022 | -0.020 | -0.020 | -0.019 |
|  | [0.057]* | [0.059]* | [0.079]* | [0.051]* | [0.071]* | [0.067]* | [0.087]* |
| Luo | 0.114 | 0.114 | 0.114 | 0.113 | 0.114 | 0.117 | 0.115 |
|  | [0.000]*** | [0.000]*** | [0.000]*** | [0.000]*** | [0.000]*** | [0.000]*** | [0.000]*** |
| Household asset index | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
|  | [0.038]** | [0.049]** | [0.042]** | [0.048]** | [0.038]** | [0.069]* | [0.048]** |


|  | (1) | (2) | (3) | (4) | (5) | (6) | (7) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Community Characteristics |  |  |  |  |  |  |  |
| Urban | 0.014 | 0.012 | 0.013 | 0.012 | 0.013 | 0.014 | 0.016 |
|  | [0.170] | [0.247] | [0.211] | [0.227] | [0.189] | [0.155] | [0.110] |
| Population ratio (M/F) | -0.003 | -0.003 | -0.004 | -0.003 | -0.008 | -0.003 | -0.006 |
|  | [0.229] | [0.191] | [0.099]* | [0.205] | [0.016]** | [0.152] | [0.009]*** |
| Education ratio (M/F) | -0.032 | -0.031 | -0.032 | -0.030 | -0.031 | -0.031 | -0.035 |
|  | [0.116] | [0.139] | [0.136] | [0.137] | [0.132] | [0.153] | [0.121] |
| Migrant share | 0.026 | 0.027 | 0.026 | 0.027 | 0.026 | 0.026 | 0.026 |
|  | [0.100]* | [0.095]* | [0.103] | [0.094]* | [0.099]* | [0.096]* | [0.087]* |
| Alternative measure: | Base | dif | wdif | ratio | wratio | log_ratio | log_wratio |
| Gender inequality | 0.007 | 0.000 | 0.000 | 0.010 | 0.004 | 0.068 | 0.019 |
|  | [0.078]* | [0.089]* | [0.017]** | [0.205] | [0.028]** | [0.014]** | [0.004]*** |
| Pseudo R-squared | 0.190 | 0.189 | 0.190 | 0.188 | 0.189 | 0.192 | 0.193 |
| Number of oservations | 2449 | 2449 | 2449 | 2449 | 2449 | 2449 | 2449 |

Notes: Probit regression models, marginal effects reported. Specifications include province dummies. Robust p-values are in brackets. * denotes statistical significance at the $10 \%$ level; ** at $5 \%$, and $* * *$ at $1 \%$. Females $15-24$ years and males 20-39 years.


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[^1]:    Notes: Probit regression models, marginal effects reported. Specifications include province dummies and their interactions with gender inequality. Robust p-values are in brackets. * denotes statistical significance at the $10 \%$ level; ** at $5 \%$, and ${ }^{* * *}$ at $1 \%$. Females $15-24$ years and males 20-39 years.

