**APPENDICES**

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| **Table A1.** Multivariable model of predictors of time to HIV transmission among Zambian women and men in HIV discordant relationships: Sensitivity analysis adjusting for possible false negative GUI exposures of interest immediately prior to seroconversion events |
|   | **M+F- couples** | **F+M- couples** |
|  | **aHR** | **95%CI**  | **p-value** | **aHR** | **95%CI**  | **p-value** |
| **Exposures of interest** |  |  |   |  |  |  |   |  |
| **Genital inflammation of woman** |   |   |   |   |   |   |   |   |
|  STI  | 1.07 | 0.58 | 1.96 | 0.83 | 1.03 | 0.50 | 2.13 | 0.94 |
|  Non-STI | 1.87 | 1.24 | 2.84 | <.01 | 2.89 | 1.76 | 4.72 | <.001 |
|  No | ref |   |   |   | ref |   |   |   |
| **BIA of woman** |   |   |   |   |   |   |   |   |
|  Yes  | 2.53 | 1.68 | 3.82 | <.001 | 3.46 | 2.24 | 5.35 | <.001 |
|  No | ref |   |   |   | ref |   |   |   |
| **Genital ulcer of woman** |   |   |   |   |   |   |   |   |
|  Yes | 4.73 | 3.19 | 7.01 | <.001 |   |   |   |   |
|  No | ref |   |   |   |   |   |   |   |
| **Genital inflammation of man** |   |   |   |   |   |   |   |   |
|  STI  | 3.52 | 1.88 | 6.59 | <.001 |  | a |   |   |
|  Non-STI | 3.71 | 2.22 | 6.20 | <.001 | 4.11 | 2.39 | 7.08 | <.001 |
|  No | ref |   |   |   | ref |   |   |   |
| **BIA of man** |   |   |   |   |   |   |   |   |
|  Yes  | 5.74 | 3.79 | 8.70 | <.001 | 8.01 | 5.11 | 12.53 | <.001 |
|  No | ref |   |   |   | ref |   |   |   |
| **Genital ulcer of man** |   |   |   |   |   |   |   |   |
|  Yes | 2.40 | 1.72 | 3.34 | <.001 | 4.36 | 2.90 | 6.55 | <.001 |
|  No | ref |   |   |   | ref |   |   |   |
| Models control for the same covariates as the primary analysis.aHR: adjusted hazard ratio; CI: confidence interval; STI: sexually transmitted infection; BIA: bilateral inguinal adenopathya Small sample size; a measure of association could not be estimated |

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| **Table A2.** Multivariable model of predictors of time to HIV transmission among Zambian women and men in HIV discordant relationships: Sensitivity analysis adjusting for possible false positive GUI exposures of interest immediately prior to seroconversion events |
|   | **M+F- couples** | **F+M- couples** |
|  | **aHR** | **95%CI**  | **p-value** | **aHR** | **95%CI**  | **p-value** |
| **Exposures of interest** |  |  |   |  |  |  |   |  |
| **Genital inflammation of woman** |   |   |   |   |   |   |   |   |
|  STI  | 1.36 | 0.76 | 2.43 | 0.30 | 1.01 | 0.50 | 2.05 | 0.97 |
|  Non-STI | 1.55 | 1.01 | 2.38 | 0.04 | 1.92 | 1.15 | 3.22 | 0.01 |
|  No | ref |  |  |  | ref |  |  |  |
| **BIA of woman** |   |  |  |  |  |  |  |  |
|  Yes  | 2.33 | 1.43 | 3.81 | <.01 | 2.76 | 1.69 | 4.51 | <.001 |
|  No | ref |  |  |  | ref |  |  |  |
| **Genital ulcer of woman** |   |  |  |  |  |  |  |  |
|  Yes | 2.08 | 1.27 | 3.41 | <.01 |  |  |  |  |
|  No | ref |  |  |  |  |  |  |  |
| **Genital inflammation of man** |   |  |  |  |  |  |  |  |
|  STI  | 3.33 | 1.79 | 6.17 | <.001 |  1.19 | 0.51 | 2.77 | 0.69 |
|  Non-STI | 1.18 | 0.43 | 3.21 | 0.75 |  | a |  |  |
|  No | ref |  |  |  | ref |  |  |  |
| **BIA of man** |   |  |  |  |  |  |  |  |
|  Yes  | 3.35 | 2.24 | 5.03 | <.001 | 4.11 | 2.52 | 6.72 | <.001 |
|  No | ref |  |  |  | ref |  |  |  |
| **Genital ulcer of man** |   |  |  |  |  |  |  |  |
|  Yes | 1.49 | 1.05 | 2.11 | 0.03 | 3.44 | 2.20 | 5.38 | <.001 |
|  No | ref |  |  |  | ref |  |  |  |
| Models control for the same covariates as the primary analysis.aHR: adjusted hazard ratio; CI: confidence interval; STI: sexually transmitted infection; BIA: bilateral inguinal adenopathya Small sample size; a measure of association could not be estimated |

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| **Table A3.** Multivariable model of predictors of time to HIV transmission among Zambian women and men in HIV discordant relationships: Sensitivity analysis using multiple imputation of missing covariate data |
|   | **M+F- couples** | **F+M- couples** |
|  | **aHR** | **95%CI**  | **p-value** | **aHR** | **95%CI**  | **p-value** |
| **Exposures of interest** |  |  |   |  |  |  |   |  |
| **Genital inflammation of woman** |   |   |   |   |   |   |   |   |
|  STI  | 1.53 | 1.38 | 1.70 | <.001 | 1.16 | 1.03 | 1.30 | 0.01 |
|  Non-STI | 1.45 | 1.34 | 1.58 | <.001 | 2.02 | 1.84 | 2.21 | <.001 |
|  No | ref |  |  |  | ref |   |   |   |
| **BIA of woman** |  |  |  |  |   |   |   |   |
|  Yes  | 2.99 | 2.75 | 3.27 | <.001 | 2.26 | 2.06 | 2.46 | <.001 |
|  No | ref |  |  |  | ref |   |   |   |
| **Genital ulcer of woman** |  |  |  |  |   |   |   |   |
|  Yes | 2.22 | 2.02 | 2.43 | <.001 |   |   |   |   |
|  No | ref |  |  |  |   |   |   |   |
| **Genital inflammation of man** |  |  |  |  |   |   |   |   |
|  STI  | 2.91 | 2.59 | 3.26 | <.001 |  2.12 | 1.59 | 2.82 | <.001 |
|  Non-STI | 0.94 | 0.77 | 1.14 | 0.54 | 1.09 | 0.93 | 1.26 | 0.28 |
|  No | ref |  |  |  | ref |   |   |   |
| **BIA of man** |  |  |  |  |   |   |   |   |
|  Yes  | 3.06 | 2.83 | 3.30 | <.001 | 3.98 | 3.64 | 4.36 | <.001 |
|  No | ref |  |  |  | ref |   |   |   |
| **Genital ulcer of man** |  |  |  |  |   |   |   |   |
|  Yes | 1.48 | 1.39 | 1.59 | <.001 | 3.41 | 3.14 | 3.70 | <.001 |
|  No | ref |  |  |  | ref |   |   |   |
| Models control for the same covariates as the primary analysis.aHR: adjusted hazard ratio; CI: confidence interval; STI: sexually transmitted infection; BIA: bilateral inguinal adenopathy |