**Table S4: Parameters for Partnership Calibration**

|  |  |  |  |
| --- | --- | --- | --- |
| **Behavioral Restriction** | **Prior Range** | **Source** | **Posterior Weighted Mean** |
| Model Initialization Period | 600 months | MA |  |
| Proportion of the sexually active population in a steady relationship in the last year of prevalence delay | (0.23-0.39) | [[1-3](#_ENREF_1)] | 0.32 |
| Proportion of sexually active males in a casual partnership in the last year of prevalence delay |  (0.15-0.60) | [[4-6](#_ENREF_4)] | 0.43 |
| Ratio of sexually active females to males in a casual partnership in the last year of prevalence delay | (0-1) | MA | 0.85 |
| Proportion of sexually active males in a CSW partnership in the last year of prevalence delay  | (0.07-0.50) | MA, [[6](#_ENREF_6),[7](#_ENREF_7)] | 0.44 |
| Proportion of sexually active males with multiple partners in the last year of prevalence delay | (0.17-0.60) |  [[6](#_ENREF_6),[8-12](#_ENREF_8)] | 0.47 |
| Ratio of sexually active females to males with multiple partners in the last year of prevalence delay  | (0-1) | MA | 0.74 |
| Ratio of number of sex acts among sexually active low risk females to high risk females in the last month of prevalence delay | (0-1) | MA | 0.40 |
| Average number of sex acts per sexually active person in the last month of prevalence delay | (0-50) | [[13-16](#_ENREF_13)] | 8.86 |

**Abbreviation in the table:** MA= modeling assumption

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