**Supplementary Materials:**

**Supplementary Table 1**: Overall sequence reads and consensus sequences for total population (n=80)

|  |  |
| --- | --- |
| **Enrollment** | **Follow-up** |
| **p24** | **gp41** | **p24** | **gp41** |
| Total reads | Consensus sequences | Total reads | Consensus sequences | Total reads | Consensus sequences | Total reads | Consensus sequences |
| 8171\*(7395-9163) | 63§(49-77) | 13158(10280-15732) | 89(65-111) | 7331\*(627-8519) | 55§(31-68) | 13384(10716-15731) | 96(79-113) |

Medians and interquartile range are shown in parenthesis. \*, § Indicate significantly higher reads and consensus sequences at the first time point (p<0.05; Mann-Whitney Rank Sum)

**Supplementary table 2:** Sequence information for HIV-SI cases

|  |  |  |  |
| --- | --- | --- | --- |
|  **Subject** | **gag** | **gp41** | **Total follow-up** |
| **Initial subtype** | **SI detected** | **SI subtype** | **Initial subtype** | **SI detected** |  **SI subtype** | **Person years** |
| 1 | A | Yes | D | A | Yes | D | 3.12 |
| 2 | A | Yes | A | A | Yes | A | 1.36 |
| 3 | D | Yes | D | A | Yes | D | 3.34 |
| 4 | D | No | - | D | Yes | D | 2.98 |
| 5 | A | No | - | A | Yes | A | 1.90 |
| 6 | - | - | - | A | Yes | A | 1.39 |
| 7 | D | 1 | D | A | No | - | 3.03 |

(-) indicates not applicable due to lack of amplification or lack or detection of SI.

**Supplementary Table 3: Baseline characteristics of women with dual infection (SI and co-infected)**

|  |  |  |  |
| --- | --- | --- | --- |
| Variable | Dually-infectedN=14 (%) | Mono-infectedN=71 (%) | P-value |
| Age (median, IQR in yrs) | 30 (27-35) | 26 (22-30) | 0.071 |
| Marital status |  |  | 0.07 |
|  Currently married | 1 (7) | 5 (7) |  |
|  Widowed | 3 (22) | 2 (3) |  |
|  Divorced or separated | 8 ( 57) | 52 (73) |  |
|  Never married | 2 (14) | 12 (17) |  |
| Source of income |  |  | **0.05** |
|  Sex work alone | 9 (64) | 20 (28) |  |
|  Sex work and other | 5 (36) | 46 (65) |  |
|  No sex work | 0 | 5 (7) |  |
| Number of sexual partners in last month |  |  | 0.19 |
|  None | 2(14) | 5 (7) |  |
|  1-4 | 1 (7) | 21 (30) |  |
|  5-19 | 2 (14) | 17 (24) |  |
|  20-49 | 5 (36) | 18 (25) |  |
|  50+ or can’t remember | 4 (28) | 10 (14) |  |
| Condom use with paying clients last month2 |  |  | 0.22 |
|  Consistently | 8 (67) | 29 (46) |  |
|  Not consistently | 4 (33) | 34 (54) |  |
| Ever using alcohol |  |  | 0.99 |
|  No | 2 (14) | 10 (14) |  |
|  Yes | 12 (86) | 61 (86) |  |
| Frequency of alcohol drinking |  |  | 0.42 |
|  Not using | 2 (14) | 10 (14) |  |
|  Less than once a week | 1 (7) | 4 (6) |  |
|  At least once a week | 9 (65) | 32 (45) |  |
|  Daily | 2 (14) | 25 (35) |  |
| Use of hormonal contraception |  |  | 0.54 |
|  None or natural methods | 7 (50) | 45 (63) |  |
|  Oral pill | 3 (21) | 9 (13) |  |
|  Injectable (Depot) | 3 (21) | 14 (20) |  |
|  Pregnant | 1 (7) | 3 (4) |  |
| HSV2 serology |  |  | 0.27 |
|  Negative | 0 | 7 (10) |  |
|  Positive | 14 (100) | 64 (90) |  |
| Syphilis |  |  | 0.64 |
|  Negative (TPHA-RPR-) | 11 (79) | 50 (71) |  |
|  Past infection (TPHA+RPR-) | 1 (7) | 13 (18) |  |
|  Active infection (TPHA+RPR+) | 2 (14) | 8 (11) |  |
| *N. gonorrhoeae* (PCR) |  |  | 0.45 |
|  Negative | 10 (71) | 59 (83) |  |
|  Positive | 4 (29) | 12 (17) |  |
| *C. trachomatis* (PCR) |  |  | 0.67 |
|  Negative | 12 (86) | 63 (89) |  |
|  Positive | 2 (14) | 8 (11) |  |
| *T. vaginalis* (Culture) |  |  | 0.21 |
|  Negative | 8 (57) | 53 (75) |  |
|  Positive | 6 (43) | 18 (25) |  |
| *M. genitalium* (PCR) |  |  | 0.21 |
|  Negative | 10 (71) | 62 (87) |  |
|  Positive | 4 (29) | 9 (13) |  |
| Bacterial vaginosis (Nugent score) |  |  | 0.39 |
|  Negative | 5 (36) | 14 (20) |  |
|  Intermediate | 2 (14) | 10 (14) |  |
|  Positive | 7 (50) | 47 (66) |  |
| Abnormal vaginal discharge on examination |  |  | 0.89 |
|  No | 5 (36) | 24 (34) |  |
|  Yes | 9 (64) | 47 (66) |  |
| Genital ulcer disease on examination |  |  | 0.99 |
|  No | 13 (93) | 64 (90) |  |
|  yes | 1 (7) | 7 (10) |  |
| CD4counts (mean, IQR)  | 594 (430-725) | 613 (409-812) | 0.791 |

1 t-test; 2 Women not reporting paying clients in the past month are excluded; All p-values using fisher exact test