**Table S1: Characteristics of Individuals with CSF viral escape at baseline**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ID | Sex | Age (Years) | Mental Status | On ART\* | Duration on ART (months) | ART Regimen | Baseline CD4 count (cells/ µL) | Fungal load (CFU/mL) | CSF WBC (cells/mm3) | CSF Glucose (mmol/L) | CSF Protein (g/L) | Mortality Outcome | CSF HIV-1 VL (copies/ml) | Plasma HIV-1 VL (copies/ml) |
| 1 | M | 40 | NORMAL | Yes | 3 | TDF/3TC/DTG | 87 | 165 | 275 | 0.80 | 3.65 | Alive | 1290 | <60 |
| 2 | F | 34 | NORMAL | No | N/A | N/A | 73 | 8300 | 160 | 1.60 | 1.65 | Alive | 526450 | 137724 |
| 3 | M | 38 | NORMAL | Yes | 34 | TDF/3TC/EFV | 10 | 50 | 10 | 2.70 | 0.63 | Alive | 362670 | 49275 |
| 4 | M | 31 | ABNORMAL | N/A | N/A | N/A | N/A | 2650000 | 5 | 1.90 | 0.97 | Alive | 736076 | 127701 |
| 5 | M | 39 | NORMAL | Yes | 112 | TDF/3TC/EFV | 63 | 1465000 | 130 | 1.60 | 0.86 | Alive | 1129270 | 119019 |
| 6 | M | 61 | NORMAL | Yes | 1 | TDF/3TC/DTG | N/A | 15 | 130 | 3.10 | 1.19 | Alive | 4064 | <60 |
| 7 | M | 44 | ABNORMAL | N/A | N/A | N/A | N/A | 45 | 7 | 3.10 | 1.10 | Alive | 3162300 | 809064 |
| 8 | M | 34 | ABNORMAL | N/A | N/A | N/A | N/A | 8450 | 8 | 2.60 | N/A | Alive | 3087332 | 186726 |
| 9 | F | 56 | ABNORMAL | Yes | 0 | TDF//3TC/DTG | N/A | 31000 | 70 | 1.70 | 0.55 | Alive | 2524 | 228 |
| 10 | M | 31 | NORMAL | Yes | 0 | TDF//3TC/DTG | 84 | 41500 | 8 | 2.10 | 0.87 | Alive | 670 | 120 |
| 11 | F | 24 | NORMAL | N/A | N/A | N/A | 8 | 3750 | 50 | 2.40 | 1.08 | Alive | 2019112 | 145347 |
| 12 | F | 34 | ABNORMAL | Yes | 18 | TDF//3TC/DTG | 339 | 37500 | 200 | 1.60 | 2.30 | Alive | 753 | <60 |
| 13 | M | 38 | NORMAL | Yes | 2 | TDF//3TC/DTG | 190 | 10 | 85 | 0.90 | 1.63 | Alive | 38864 | 3393 |
| 14 | M | 35 | ABNORMAL | Yes | 109 | TDF/3TC/EFV | 51 | 15 | 145 | 1.00 | 1.18 | Alive | 13200792 | 2019123 |
| 15 | F | 33 | NORMAL | N/A | N/A | N/A | 33 | 550000 | 130 | 1.20 | 1.49 | Alive | 4102696 | 684588 |
| 16 | M | 44 | NORMAL | N/A | N/A | N/A | N/A | 750000 | 5 | 3.10 | 0.57 | Alive | 990370 | 283332 |
| 17 | M | 41 | ABNORMAL | N/A | N/A | N/A | 43 | 530000 | 4 | 1.30 | 0.76 | Dead | 238140 | 71499 |
| 18 | F | 50 | NORMAL | Yes | 0 | TDF/3TC/DTG | 295 | 20 | 62 | 3.00 | 0.52 | Dead | 4730 | 1143 |
| 19 | F | 41 | ABNORMAL | No | N/A | N/A | N/A | 153000 | 10 | 3.30 | N/A | Dead | 846132 | 113559 |
| 20 | M | 31 | ABNORMAL | Yes | 0 | TDF/3TC/EFV | 127 | 70 | 80 | 1.40 | 2.10 | Dead | 6356 | 1566 |

Abbreviations: 3TC, Lamivudine; ART, antiretroviral therapy; CFU, colony-forming units; CSF, cerebrospinal fluid; DTG, Dolutegravir; EFV, Efavirenz; F, female; IQR, interquartile range; M, male; N/A, not available or not applicable; TDF, Tenofovir Disoproxil Fumarate; WBC, white blood cell. \*ART status is N/A because the individuals were newly diagnosed with HIV.