**Table S1. Patient characteristics at start of antiretroviral therapy in the dataset that was used to parameterise the mathematical model.**

|  |  |
| --- | --- |
|  | **Analysis of mortality and loss to follow-up(n=9888)** |
| **Age (years)** |  |
|  Median (IQR) | 33 (29-39) |
| **Gender** |  |
|  Male | 3240 (32.8%) |
|  Female | 6648 (67.2%) |
| **Cohort** |  |
|  Gugulethu | 2658 (26.9%) |
|  Khayelitsha | 7230 (73.1%) |
| **Baseline CD4 cell count (cells/μL)** |
|  Median (IQR) | 93 (41-158) |
| **Baseline HIV-1 viral load (log10 copies/mL)** |
|  Median (IQR) | 5.0 (4.5-5.5) |
| **First-line regimens** |  |
|  d4T 3TC EFV | 4985 (50.4%) |
|  d4T 3TC NVP | 3182 (32.2%) |
|  ZDV 3TC NVP | 1031 (10.4%) |
|  ZDV 3TC EFV | 680 (6.9%) |
|  d4T ddI EFV | 7 (0.1%) |
|  ZDV ddI EFV | 3 (0.0%) |
| **Second-line regimens** |  |
|  ZDV ddI LPV | 243 (69.2%) |
|  ZDV 3TC EFV LPV | 33 (9.4%) |
|  d4T ddI LPV | 22 (6.3%) |
|  ZDV 3TC LPV | 9 (2.6%) |
|  Other | 44 (12.5%) |

IQR, interquartile range; 3TC, lamivudine; d4T, stavudine; ZDV, zidovudine; ddI, didanosine; NVP, nevirapine; EFV, efavirenz; LPV, lopinavir.