**Supplementary table1. The demographic and clinical characteristics of people living with HIV in ART groups**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Characteristics** | **Total (n=2,494)** | **%** | **≤7 days group**  **(n=817, %)** | **8-30 days group**  **(n=1,009, %)** | **>30 days group**  **(n=668, %)** | **χ2** | **p-Value** |
| **Gender** |  |  |  |  |  |  |  |
| Male | 2328 | 93.3 | 756(92.5) | 932(92.4) | 640(95.8) | 8.938 | 0.011 |
| Female | 166 | 6.7 | 61(7.5) | 77(7.6) | 28(4.2) |  |  |
| **Race/ethnicity** |  |  |  |  |  |  |  |
| Han | 2149 | 86.2 | 688(84.2) | 880(87.2) | 581(87.0) | 3.920 | 0.141 |
| Others | 345 | 13.8 | 129(15.8) | 129(12.8) | 87(13.0) |  |  |
| **Age at enrollment (years)** |  |  |  |  |  |  |  |
| <30 | 967 | 38.8 | 304(37.2) | 359(35.6) | 304(45.5) | 17.891 | 0.0001 |
| ≥30 | 1526 | 61.1 | 512(62.7) | 650(64.4) | 364(54.5) |  |  |
| Not available | 1 | 0.1 | 1(0.1) | 0(0.0) | 0(0.0) |  |  |
| **Marital status** |  |  |  |  |  |  |  |
| Unmarried | 1567 | 62.8 | 507(62.1) | 605(60.0) | 455(68.1) | 15.739 | 0.003 |
| Married/Divorced/Widower | 922 | 37.0 | 307(37.6) | 404(40.0) | 211(31.6) |  |  |
| Not available | 5 | 0.2 | 3(0.4) | 0(0.0) | 2(0.3) |  |  |
| **Education level** |  |  |  |  |  |  |  |
| Junior high school and below | 689 | 27.6 | 223(27.3) | 282(27.9) | 184(27.5) | 11.247 | 0.024 |
| Senior high school and above | 1797 | 72.1 | 587(71.8) | 727(72.1) | 483(72.3) |  |  |
| Not available | 8 | 0.3 | 7(0.9) | 0(0.0) | 1(0.1) |  |  |
| **Infection Route** |  |  |  |  |  |  |  |
| MSM | 2072 | 83.1 | 664(81.3) | 831(82.4) | 577(86.4) | 23.212 | 0.001 |
| HST | 368 | 14.8 | 128(15.7) | 163(16.2) | 77(11.5) |  |  |
| IDU | 16 | 0.6 | 3(0.4) | 5(0.5) | 8(1.2) |  |  |
| Others/ Not available | 38 | 1.5 | 22(2.7) | 10(1.0) | 6(0.9) |  |  |
| **Infection stage at enrollment** |  |  |  |  |  |  |  |
| Chronic HIV infection | 1604 | 64.3 | 501(61.3) | 643(63.7) | 460(68.9) | 18.618 | 0.001 |
| Recent HIV infection | 843 | 33.8 | 290(35.5) | 354(35.1) | 199(29.8) |  |  |
| Not available | 47 | 1.9 | 26(3.2) | 12(1.2) | 9(1.3) |  |  |
| **Subtypes** |  |  |  |  |  |  |  |
| CRF01\_AE | 1743 | 69.9 | 565(69.2) | 718(71.2) | 460(68.9) | 4.864 | 0.561 |
| CRF07\_BC | 458 | 18.4 | 161(19.7) | 178(17.6) | 119(17.8) |  |  |
| B | 111 | 4.5 | 30(3.7) | 45(4.5) | 36(5.4) |  |  |
| Others | 182 | 7.3 | 61(7.5) | 68(6.7) | 53(7.9) |  |  |
| **ART regimens** |  |  |  |  |  |  |  |
| TDF/AZT+3TC+EFV | 1779 | 71.3 | 482(59.0) | 767(76.0) | 530(79.3) | 92.573 | <0.0001 |
| Others/ Not available | 715 | 28.7 | 335(41.0) | 242(23.0) | 138(20.7) |  |  |
| **Baseline clinical data** |  |  |  |  |  | **F** | **p-Value** |
|  |  |  | (n=574) | (n=564) | (n=356) |  |  |
| Viral load (log10 copies/mL) | 1494 | 59.9 | 4.8±0.7 | 4.7±0.7 | 4.7±0.7 | 2.391 | 0.092 |
|  |  |  | (n=617) | (n=670) | (n=444) |  |  |
| CD4+T cell count (cells/μL) | 1731 | 69.4 | 298±196 | 278±199 | 324±209 | 7.024 | 0.0009 |

Abbreviations: ART, antiretroviral therapy; MSM, men who have sex with men; HST, heterosexual transmission; IDU, intravenous drug user; TDF: Tenofovir; AZT: zidovudine; 3TC: Lamivudine ;+EFV: Efavirenz