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| **Table S1.** Comparisons of clinical characteristics of patients with missing rapid plasma reagin values and those without missing values at 6 months of follow-up |
| 　 | Patients with missing values (n=123) | Patients without missing values (n=450) | P-value |
| Age, mean (SD), years | 32.9 (7.3) | 33.2 (8) | 0.58 |
| Risk, n (%) |  |  |  |  |  |  |  |  |  |
|  MSM | 116 (94.31) | 423 (94.00) | >0.99 |
|  non-MSM | 7 (5.69) | 27 (6.00) |  |
| Syphilis stage, n (%) |  |  |  |  |  |  |  |  |  |
|  Primary | 14 (11.38) | 37 (8.22) | 0.29 |
|  Secondary | 79 (64.23) | 252 (56.00) | 0.12 |
|  Early latent | 30 (24.39) | 161 (35.78) | 0.018 |
| RPR titer, median (IQR) |  |  |  |  |  |  |  |  |  |
|  RPR titer ≧ 1:32 | 99 (80.49) | 379 (84.22) | 0.34 |
| CD4 count, mean (SD), cells/μl | 447 (247) | 459 (243) | 0.83 |
|  CD4 ≦200, n (%) | 15 (12.20) | 56 (12.44) | >0.99 |
|  200 <CD4 ≦350, n (%) | 33 (26.83) | 103 (22.89) | 0.4 |
|  CD4 >350, n (%) | 75 (60.98) | 291 (64.67) | 0.46 |
| PVL, mean (SD), log10 copies/ml | 3.15 (1.48) | 3.02 (1.5) | 0.66 |
|  PVL <400 copies/ml, n (%) | 62 (50.41) | 243 (54.00) | 0.54 |
| Prior history of syphilis, n (%) | 42 (34.15) | 161 (35.78) | 0.83 |
| CART, n (%) | 78 (63.41) | 284 (63.11) | >0.99 |
| 3 doses of penicillin, n (%) | 65 (52.85) | 213 (47.33) | 0.31 |

**Abbreviations:** CART; combination antiretroviral therapy; IQR, interquartile range; MSM, men who have sex with men; PVL, plasma HIV RNA load; SD, standard deviation