Variable Selection:

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| Characteristic | Univariate | Domain | Model | Note |
| Demographic |  |  |  |  |
| Age at enrollment (mean) | P<0.0001\* | √ | √ |  |
| Gender (%female) | P<0.0001\* | √ | √ |  |
| Ethnicity (%black) | P=0.66 | X |  |  |
| Socioeconomic |  |  |  |  |
| Income (%yes) | P=0.017\* | X | ? |  |
| Employment (%UE) | P=0.033\* | X | ? |  |
| Payer source for ARVs (%family/spouse) | P=0.017\* | √ | √ |  |
| Housing (%rent/Own) | P=0.17 | X |  |  |
| Education (mean years) | P=0.0093\* | √ | √ |  |
| Wealth Index 1 (mean) | P=0.83 | X | ? |  |
| Wealth Index 2 (mean) | P=0.053\* | X | ? |  |
| Transportation (%personal vehicle) | P=0.0035 | √ | √ |  |
| Psychosocial |  |  |  |  |
| Traditional K-10 score (mean) | P<0.0001\* | X | ? | Depression\_11 √ |
| Tired question K-10 (%not) | P=0.0075\* | √ | √ | Effort\_bin√ |
| Religious Faith (%yes) | P=0.0090\* | √ | √ |  |
| Religion (%Christian) | P=0.0032\* | X | ? |  |
| Religious activity (%no religion/not active) | P=0.0001\* | √ | √ |  |
| TM (%ever took) | P=0.69 | X |  |  |
| Stigma (%never) | P=1.00/0.66/0.35/0.62 | X |  |  |
| Partner HIV status (%0 partners) | P=0.061\* | X |  |  |
| Total number of current partners (%0 partners) | P=0.0073\* | X | ? |  |
| Disclosed HIV status (%no) | P=0.072\* | X |  |  |
| Practice safe sex (%always) | P=0.0003\* | √ | √ | Practice Safe Bin√ |
| Safe sex practice (%used condoms) | P=0.0014\* | X | ? |  |
| Have an ART supporter (%yes) | P=0.0036\* | √ | √ |  |
| Clinic experience (%pleased) | P<0.0001\* | √ | √ |  |

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| Characteristic | Univariate | Domain | Model | Note |
| Symptoms and Exam |  |  |  |  |
| Fever (%none) | P=0.025\* | X |  |  |
| Fatigue (%none) | P<0.0001\* | √ | √ |  |
| Memory (%none) | P=0.0029\* | X |  |  |
| Nausea (%none) | P=0.0043\* | X |  |  |
| Diarrhea (%none) | P=0.0052\* | √ | √ |  |
| Sad (%none) | P=0.0004\* | √ | √ |  |
| Nervous (%none) | P=0.0014\* | √ | √ |  |
| Sleep(%none) | P=0.0016\* | X |  |  |
| Rash (%none) | P=<0.0001\* | √ | √ |  |
| Headache (%none) | P=0.016\* | X |  |  |
| Gastrointestinal intolerance (%none) | P=0.057\* | X |  |  |
| Sex problems (%none) | P=0.0005\* | √ | √ |  |
| Weight Change (%none) | P=0.032\* | X |  |  |
| Hair loss (%none) | P=0.029\* | X |  |  |
| Pain (%none) | P=0.91 | X |  |  |
| Any symptom felt related to ARVs (%yes) | P=0.0078\* | X | ? |  |
| Karnofsky score (mean) | P=0.026\* | X | ? |  |
| Neurocognitive assessment | P=0.89 | X | ? |  |
| Medical History |  |  |  |  |
| Recent CD4 count (median) | P=<0.0001\* | X |  |  |
| Recent CD4 count (median log transformed) | P=<0.0001\* | √ | √ | This is won’t change |
| Recent CD4 count (%<350 cells/µL) | P=<0.0001\* | X | ? |  |
| Tuberculosis (%yes) | P=1.00 | X | ? |  |
| Cryptococcal meningitis (%yes) | P=1.00 | X | ? |  |
| Toxoplasmosis (%yes) | P=0.35 | √ | √ |  |
| Lipodystrophy (%yes) | P<0.0001 | √ | √ |  |
| Renal dysfunction (%yes) | P=0.52 | X |  |  |

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| Characteristic | Univariate | Domain | Model | Note |
| Medications |  |  |  |  |
| Duration ART (months) | P<0.0001\* | √ | √ |  |
| Initiating ARV Clinic (%Sinikithemba) | P=0.013\* | √ | √ |  |
| Recommended ART | P=0.0068\* | √ | √ |  |
| Current ART regimen contains | P=0.0077\* | √ | √ |  |
| HIV education and training sessions (%3+) | P=0.0050\* | √ | √ | Arv\_train\_bin |
| Adherence counseling sessions | P<0.0001\* | √ | √ |  |
| Mechanism to remember to take ARVs | P=0.44/0.060/0.0022\* | √ | √ | remember\_meds\_\_\_7(Media)  remember\_meds\_\_\_other(Media) |
| Fluconazole use in the past 6 months (%yes) | P<0.0001\* | √ | √ |  |
| Bactrim use in the past 6 months (%yes) | P=0.0001\* | √ | √ |  |
| INH or RIF use in the past 6 months (%yes) | P=0.0005\* | X |  |  |
| ETB use in the past 6 months (%yes) | P=0.014\* | √ | √ |  |
| MPR (From Earliest Refill) | 0.23 |  | X |  |
| MPR (From Enrollment ) | 0.0008\* |  | √ |  |
| Adherence | 0.0008\* |  | √ |  |