Table 1. Cohort Characteristics for case and controls

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| Characteristic | Overall | Control | Case | p value |
| Demographic  Age at enrollment (mean)  Gender (%female)  Ethnicity (%black) | 39.6  64.6  98.9 | 40.9  71.0  98.7 | 37.1  52.5  99.4 | <0.0001  0.0001  0.66 |
| Socioeconomic  Income (%yes)  Employment (%UE)  Payer source for ARVs (%family/spouse)  Housing (%rent/own)  Education (mean years)  Wealth Index 1 (mean)  Wealth Index 2 (mean)  Transportation (%personal vehicle) | 78.6  19.0  19.0  50.2  10.5  0.0  0.0  13.1 | 82.0  16.0  15.7  52.7  10.2  -0.1  0.1  9.7 | 72.2  24.7  25.3  45.6  11.0  0.3  -0.2  19.6 | 0.017  0.033  0.017  0.17  0.0093  0.83  0.053  0.0035 |
| Psychosocial  Traditional K-10 score (mean)  Traditional K-10 score (%12+)  Tired question from K-10 (%yes)  Religious Faith (%yes)  Religion (%Christian)  Religious activity (%no religion/not active)  TM (%ever took)  Perceived stigma at clinic/hospital (%never)  Have a current partner (%yes)  Family Member HIV status (%positive)  Disclosed HIV status to partner (%yes)  Practiced safe sex in past 6 months (%always)  Safe sex practice (%used condoms)  Have an ART supporter (%yes)  Clinic experience (%pleased) | 12.8  55.0  44.3  88.4  97.0  48.3  57.6  99.8  65.1  42.1  41.5  91.3  60.6  15.1  80.1 | 12.3  48.3  39.7  91.3  97.8  41.7  58.3  100  60.7  38.0  38.3  95.0  56.0  11.3  88.0 | 13.7  67.7  53.2  82.9  95.4  60.8  56.3  99.4  73.4  50.0  47.5  84.2  69.4  22.2  65.2 | <0.0001  <0.0001  0.0075  0.009  0.069  0.0001  0.69  0.35  0.0073  0.017  0.072  0.0002  0.0064  0.0036  <0.0001 |
| Symptoms and Exam  Fever, chills or sweats (%no)  Fatigue (%no)  Memory difficulty (%no)  Nausea or vomiting (%no)  Diarrhea (%no)  Felt sad or depressed (%no)  Felt nervous or anxious (%no)  Rash (%no)  Headache (%no)  Gastrointestinal intolerance (%no)  Sexual dysfunction (%no)  Weight loss or wasting (%no)  Hair loss (%no)  Pain or numbness of extremities (%no)  Any symptom felt related to ARVs (%yes)  Karnofsky score (mean)  Neurocognitive assessment  None  ANI/MND  HAD | 80.6  67.9  80.1  91.5  88.4  65.5  77.3  67.5  71.8  78.2  78.6  83.8  93.4  72.5  43.9  97.0  34.7  29.9  35.4 | 83.7  76.0  84.3  94.3  91.7  71.3  82.0  74.7  75.7  81.0  83.7  86.7  95.3  72.7  39.0  97.7  35.3  30.0  34.7 | 74.7  52.5  72.2  86.1  82.3  54.4  68.4  53.8  64.6  72.8  69.0  78.5  89.9  72.2  52.6  95.7  33.5  29.7  36.7 | 0.025  <0.0001  0.0029  0.0043  0.0052  0.0004  0.0014  <0.0001  0.016  0.057  0.0005  0.032  0.029  0.91  0.0078  0.026  0.89 |
| Medical History  Recent CD4 count (median)  Recent log10 CD4 count (median)  Recent CD4 count (%<>=350 cells/µL)  Tuberculosis (%yes)  Cryptococcal meningitis (%yes)  Toxoplasmosis (%yes)  Lipodystrophy (%yes)  Renal dysfunction (%yes) | 300.5  2.5  41.9  54.8  1.7  1.1  29.5  2.4 | 359.0  2.6  52.0  54.7  1.7  0.7  37.0  2.0 | 206.0  2.2  22.8  55.1  1.9  1.9  15.2  3.2 | <0.0001  <0.0001  <0.0001  1.00  1.00  0.35  <0.0001  0.52 |
| Medications  Duration ART (months)  Initiating ARV Clinic (%Sinikithemba)  Recommended ART  Doctor or nurse  Family  Friend  Other  Current ART regimen contains  Stavudine (d4T)  Zidovudine (ZDV)  Other (Tenofovir, didanosine, abacavir)  HIV education and training sessions (%3+)  Adherence counseling sessions  0 or 1 session  2, 3 or 4 sessions  5+ sessions  Mechanism to remember to take ARVs  Cell phone (%yes)  TV or radio (%yes)  Clock or watch alarm (%yes)  Other (%yes)  Fluconazole use in the past 6 months (%yes)  TS use in the past 6 months (%yes)  INH or RIF use in the past 6 months (%yes)  ETB use in the past 6 months (%yes) | 30.2  90.0  43.4  23.4  14.4  18.8  21.0  21.4  57.6  95.2  10.1  70.9  19.0  88.9  8.3  11.1  6.3  3.7  51.3  13.5  2.8 | 33.1  92.7  42.7  19.3  16.7  21.3  17.3  24.7  58.0  97.3  6.0  78.0  16.0  91.0  5.3  10.3  4.7  1.0  44.7  9.3  1.3 | 24.8  84.8  44.9  31.0  10.1  13.9  27.8  15.2  57.0  91.1  17.8  57.3  24.8  84.8  13.9  12.7  9.5  8.9  63.9  21.5  5.7 | <0.0001  0.013  0.0068  0.0077  0.0050  <0.0001  0.060  0.0022  0.44  0.067  <0.0001  0.0001  0.0005  0.014 |
| Access MPR 180 days prior to enrolment (mean) | 0.94 | 0.93 | 0.95 | 0.0008 |
| Adherence Pill Count with MPR (mean) | 0.96 | 0.95 | 0.98 | 0.0008 |

UE = Unemployed (seeking work or not seeking work), ARVs = antiretrovirals, K-10 = Kessler 10 depression scale, TM = any form of traditional (African, Chinese, Indian) or alternative/complimentary medicine, ART = ARV treatment, INH = isoniazid, RIF = rifampicin, ETB = ethambutol, MPR = medication possession ratio