DO ART NCD Supplement

06 May, 2024

# Appendix tables

## S1: Variables Description

* S1 Codebook (included with main paper)

## S2: Additional Descriptive Statistics

* S2, Table 1: Change in cardiovascular risk from baseline to endline, by trial arm and gender (AHRI site only, N = 350)
* S2, Table 2: Descriptive statistics of cardiovascular risk in the DO ART study, by site and including Uganda (N = 1315)
* S2, Table 3: Descriptive statistics of cardiovascular risk in the DO ART study for South Africa, by viral suppression (N = 1010)
* S2, EXTRA table: Descriptive statistics of cardiovascular risk in the DO ART Study for South Africa, by ART initiation

## S3: Additional Analysis

* S3, Table 1: Table 2 by gender (adjusted only)
* S3, Table 2: Table 3 by gender (adjusted only)
* S3, Table 3: Table 2 restricted to people who initiated ART
* S3, Table 4: Table 3 restricted to people who initiated ART
* S3, Table 5: Table 4 restricted to people who initiated ART

## S4: Figures

* S4 Figure 1: CVD variables, comparing community follow-up with clinic follow-up
* S4 Figure 2: Distribution of CVD risk by gender
* S4 Figure 3: Distribution of cardiovascular risk, by viral suppression status at exit
* S4 Figure 4: CVD variables, comparing VS versus not - CLINIC FOLLOW-UP GROUP
* S4 Figure 5: CVD variables, comparing VS versus not - COMMUNITY FOLLOW-UP GROUP
* S4 Figure 6: CVD variables, by VS and age
* S4 Figure 7: Distribution of CVD variables by education

### Page Break

## S2, Appendix Table 1: Change in cardiovascular risk from baseline to endline, by trial arm and gender (AHRI site only, N = 350)

| **Change in CVD risk** | **Clinic Follow-Up Arm   Mean (SE)** | **Community Follow-Up Arm   Mean (SE)** | **Women   Mean (SE)** | **Men   Mean (SE)** | **Virally Suppressed at Exit   Mean (SE)** | **Not Virally Suppressed at Exit   Mean (SE)** | **Total   Mean (SE)** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Change in BMI, baseline to endline   [AHRI only] | 0.86 (0.27) | 0.67 (0.24) | 0.53 (0.24) | 0.93 (0.26) | 0.55 (0.21) | 1.27 (0.33) | 0.74 (0.18) |
| Change in Systolic Blood pressure, baseline to endline   [AHRI only] | 0.78 (1.5) | 2.13 (1.17) | 1.1 (1.33) | 2.08 (1.28) | 2.97 (1.1) | -1.87 (1.65) | 1.63 (0.92) |

### Page break

## S2, Appendix Table 2: Descriptive statistics of cardiovascular risk in the DO ART study, by site (N = 1315)

|  | **Category** | **SW Uganda   n (%)** | **Midlands KZN SA   n (%)** | **Northern KZN SA   n (%)** | **Total   n (%)** |
| --- | --- | --- | --- | --- | --- |
| Age | 18-39 | 214 (70%) | 488 (74%) | 254 (73%) | 956 (73%) |
| 40-59 | 83 (27%) | 165 (25%) | 90 (26%) | 338 (26%) |
| 60+ | 8 (3%) | 7 (1%) | 6 (2%) | 21 (2%) |
| Gender | Women | 144 (47%) | 345 (52%) | 160 (46%) | 649 (49%) |
| Men | 161 (53%) | 315 (48%) | 190 (54%) | 666 (51%) |
| Education | Primary | 203 (67%) | 106 (16%) | 94 (27%) | 403 (31%) |
| Secondary | 73 (24%) | 520 (79%) | 243 (69%) | 836 (64%) |
| Tertiary+ | 15 (5%) | 24 (4%) | 4 (1%) | 43 (3%) |
| Missing | 14 (5%) | 10 (2%) | 9 (3%) | 33 (3%) |

| **ii) Lifestyle and other risk** | **Category** | **SW Uganda   n (%)** | **Midlands KZN SA   n (%)** | **Northern KZN SA   n (%)** | **Total   n (%)** |
| --- | --- | --- | --- | --- | --- |
| Smoking Status   [Baseline] | Not at all | 253 (83%) | 486 (74%) | 272 (78%) | 1,011 (77%) |
| Former | 5 (2%) | 3 (0%) | 4 (1%) | 12 (1%) |
| Current - occasional | 13 (4%) | 45 (7%) | 14 (4%) | 72 (5%) |
| Current - frequent | 34 (11%) | 126 (19%) | 60 (17%) | 220 (17%) |
| Days of exercise (per week)   [Exit] | 5-7 | 162 (53%) | 21 (3%) | 31 (9%) | 214 (16%) |
| 3-4 | 58 (19%) | 312 (47%) | 86 (25%) | 456 (35%) |
| 1-2 | 22 (7%) | 189 (29%) | 111 (32%) | 322 (24%) |
| 0 | 5 (2%) | 99 (15%) | 69 (20%) | 173 (13%) |
| Missing | 58 (19%) | 39 (6%) | 53 (15%) | 150 (11%) |
| Vegetable intake   [Exit] | Always or usually | 79 (26%) | 153 (23%) | 22 (6%) | 254 (19%) |
| Sometimes | 93 (30%) | 394 (60%) | 98 (28%) | 585 (44%) |
| Never or rarely | 76 (25%) | 73 (11%) | 207 (59%) | 356 (27%) |
| Missing | 57 (19%) | 40 (6%) | 23 (7%) | 120 (9%) |
| Prior stroke or heart attack   [Exit] | No | 248 (81%) | 611 (93%) | 323 (92%) | 1,182 (90%) |
| Yes | 0 (0%) | 10 (2%) | 4 (1%) | 14 (1%) |
| Missing | 57 (19%) | 39 (6%) | 23 (7%) | 119 (9%) |

| **iii) Cardiovascular Risk** | **Category** | **SW Uganda   n (%)** | **Midlands KZN SA   n (%)** | **Northern KZN SA   n (%)** | **Total   n (%)** |
| --- | --- | --- | --- | --- | --- |
| Blood pressure   [Exit] | Normal | 143 (47%) | 330 (50%) | 175 (50%) | 648 (49%) |
| Elevated | 14 (5%) | 160 (24%) | 61 (17%) | 235 (18%) |
| Hypertension Stage 1 | 92 (30%) | 123 (19%) | 74 (21%) | 289 (22%) |
| Hypertension Stage 2 | 14 (5%) | 16 (2%) | 16 (5%) | 46 (3%) |
| Missing | 42 (14%) | 31 (5%) | 24 (7%) | 97 (7%) |
| BMI (kg/m^2)   [Exit] | <18.5 | 14 (5%) | 19 (3%) | 11 (3%) | 44 (3%) |
| 18.5-24.9 | 161 (53%) | 244 (37%) | 176 (50%) | 581 (44%) |
| 25-29.9 | 47 (15%) | 231 (35%) | 88 (25%) | 366 (28%) |
| 30+ | 8 (3%) | 134 (20%) | 49 (14%) | 191 (15%) |
| Missing | 75 (25%) | 32 (5%) | 26 (7%) | 133 (10%) |
| Hemoglobin A1C (%)   [Exit] | Normal | 174 (57%) | 379 (57%) | 259 (74%) | 812 (62%) |
| Prediabetes | 14 (5%) | 18 (3%) | 36 (10%) | 68 (5%) |
| Diabetes | 3 (1%) | 0 (0%) | 8 (2%) | 11 (1%) |
| Missing | 114 (37%) | 263 (40%) | 47 (13%) | 424 (32%) |
| Total cholesterol (mg/dL)   [Exit] | Normal | 185 (61%) | 615 (93%) | 293 (84%) | 1,093 (83%) |
| Borderline High | 5 (2%) | 3 (0%) | 7 (2%) | 15 (1%) |
| High | 1 (0%) | 0 (0%) | 2 (1%) | 3 (0%) |
| Missing | 114 (37%) | 42 (6%) | 48 (14%) | 204 (16%) |
| 10-year CVD risk score   [Exit] | <10% | 190 (62%) | 397 (60%) | 302 (86%) | 889 (68%) |
| Missing | 115 (38%) | 263 (40%) | 48 (14%) | 426 (32%) |

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## S2, Appendix Table 3: Descriptive statistics of cardiovascular risk in the DO ART study for South Africa, by viral suppression (N = 1010)

|  | **Category** | **Virally suppressed   n (%)** | **Not virally suppressed   n (%)** | **VS unknown   (%)** | **Total   n (%)** |
| --- | --- | --- | --- | --- | --- |
| Age | 18-39 | 482 (74%) | 239 (72%) | 21 (78%) | 742 (73%) |
| 40-59 | 159 (24%) | 90 (27%) | 6 (22%) | 255 (25%) |
| 60+ | 11 (2%) | 2 (1%) | 0 (0%) | 13 (1%) |
| Gender | Women | 348 (53%) | 146 (44%) | 11 (41%) | 505 (50%) |
| Men | 304 (47%) | 185 (56%) | 16 (59%) | 505 (50%) |
| Education | Primary | 118 (18%) | 76 (23%) | 6 (22%) | 200 (20%) |
| Secondary | 504 (77%) | 240 (73%) | 19 (70%) | 763 (76%) |
| Tertiary+ | 19 (3%) | 8 (2%) | 1 (4%) | 28 (3%) |
| Missing | 11 (2%) | 7 (2%) | 1 (4%) | 19 (2%) |

| **ii) Lifestyle and other risk** | **Category** | **Virally suppressed   n (%)** | **Not virally suppressed   n (%)** | **VS unknown   (%)** | **Total   n (%)** |
| --- | --- | --- | --- | --- | --- |
| Smoking Status   [Baseline] | Not at all | 504 (77%) | 238 (72%) | 16 (59%) | 758 (75%) |
| Former | 5 (1%) | 2 (1%) | 0 (0%) | 7 (1%) |
| Current - occasional | 31 (5%) | 25 (8%) | 3 (11%) | 59 (6%) |
| Current - frequent | 112 (17%) | 66 (20%) | 8 (30%) | 186 (18%) |
| Days of exercise (per week)   [Exit] | 5-7 | 36 (6%) | 16 (5%) | 0 (0%) | 52 (5%) |
| 3-4 | 272 (42%) | 124 (37%) | 2 (7%) | 398 (39%) |
| 1-2 | 185 (28%) | 114 (34%) | 1 (4%) | 300 (30%) |
| 0 | 118 (18%) | 50 (15%) | 0 (0%) | 168 (17%) |
| Missing | 41 (6%) | 27 (8%) | 24 (89%) | 92 (9%) |
| Vegetable intake   [Exit] | Always or usually | 114 (17%) | 61 (18%) | 0 (0%) | 175 (17%) |
| Sometimes | 326 (50%) | 164 (50%) | 2 (7%) | 492 (49%) |
| Never or rarely | 186 (29%) | 93 (28%) | 1 (4%) | 280 (28%) |
| Missing | 26 (4%) | 13 (4%) | 24 (89%) | 63 (6%) |
| Prior stroke or heart attack   [Exit] | No | 616 (94%) | 315 (95%) | 3 (11%) | 934 (92%) |
| Yes | 11 (2%) | 3 (1%) | 0 (0%) | 14 (1%) |
| Missing | 25 (4%) | 13 (4%) | 24 (89%) | 62 (6%) |

| **iii) Cardiovascular Risk** | **Category** | **Virally suppressed   n (%)** | **Not virally suppressed   n (%)** | **VS unknown   (%)** | **Total   n (%)** |
| --- | --- | --- | --- | --- | --- |
| Blood pressure   [Exit] | Normal | 333 (51%) | 171 (52%) | 1 (4%) | 505 (50%) |
| Elevated | 140 (21%) | 80 (24%) | 1 (4%) | 221 (22%) |
| Hypertension Stage 1 | 139 (21%) | 57 (17%) | 1 (4%) | 197 (20%) |
| Hypertension Stage 2 | 21 (3%) | 11 (3%) | 0 (0%) | 32 (3%) |
| Missing | 19 (3%) | 12 (4%) | 24 (89%) | 55 (5%) |
| BMI (kg/m^2)   [Exit] | <18.5 | 15 (2%) | 15 (5%) | 0 (0%) | 30 (3%) |
| 18.5-24.9 | 262 (40%) | 156 (47%) | 2 (7%) | 420 (42%) |
| 25-29.9 | 223 (34%) | 95 (29%) | 1 (4%) | 319 (32%) |
| 30+ | 130 (20%) | 53 (16%) | 0 (0%) | 183 (18%) |
| Missing | 22 (3%) | 12 (4%) | 24 (89%) | 58 (6%) |
| Hemoglobin A1C (%)   [Exit] | Normal | 426 (65%) | 210 (63%) | 2 (7%) | 638 (63%) |
| Prediabetes | 36 (6%) | 18 (5%) | 0 (0%) | 54 (5%) |
| Diabetes | 5 (1%) | 3 (1%) | 0 (0%) | 8 (1%) |
| Missing | 185 (28%) | 100 (30%) | 25 (93%) | 310 (31%) |
| Total cholesterol (mg/dL)   [Exit] | Normal | 593 (91%) | 312 (94%) | 3 (11%) | 908 (90%) |
| Borderline High | 9 (1%) | 1 (0%) | 0 (0%) | 10 (1%) |
| High | 1 (0%) | 1 (0%) | 0 (0%) | 2 (0%) |
| Missing | 49 (8%) | 17 (5%) | 24 (89%) | 90 (9%) |
| 10-year CVD risk score   [Exit] | <10% | 467 (72%) | 230 (69%) | 2 (7%) | 699 (69%) |
| Missing | 185 (28%) | 101 (31%) | 25 (93%) | 311 (31%) |

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## S2, Appendix Table 4: Descriptive statistics of cardiovascular risk in the DO ART study for South Africa, by ART initiation

|  | **Category** | **Initiated ART   n (%)** | **Did not initiate ART   n (%)** | **Total   n (%)** |
| --- | --- | --- | --- | --- |
| Age | 18-39 | 245 (73%) | 497 (74%) | 742 (73%) |
| 40-59 | 89 (26%) | 166 (25%) | 255 (25%) |
| 60+ | 2 (1%) | 11 (2%) | 13 (1%) |
| Gender | Women | 153 (46%) | 352 (52%) | 505 (50%) |
| Men | 183 (54%) | 322 (48%) | 505 (50%) |
| Education | Primary | 80 (24%) | 120 (18%) | 200 (20%) |
| Secondary | 246 (73%) | 517 (77%) | 763 (76%) |
| Tertiary+ | 8 (2%) | 20 (3%) | 28 (3%) |
| Missing | 2 (1%) | 17 (3%) | 19 (2%) |

| **ii) Lifestyle and other risk** | **Category** | **Initiated ART   n (%)** | **Did not initiate ART   n (%)** | **Total   n (%)** |
| --- | --- | --- | --- | --- |
| Smoking Status   [Baseline] | Not at all | 248 (74%) | 510 (76%) | 758 (75%) |
| Former | 2 (1%) | 5 (1%) | 7 (1%) |
| Current - occasional | 21 (6%) | 38 (6%) | 59 (6%) |
| Current - frequent | 65 (19%) | 121 (18%) | 186 (18%) |
| Days of exercise (per week)   [Exit] | 5-7 | 7 (2%) | 45 (7%) | 52 (5%) |
| 3-4 | 147 (44%) | 251 (37%) | 398 (39%) |
| 1-2 | 101 (30%) | 199 (30%) | 300 (30%) |
| 0 | 50 (15%) | 118 (18%) | 168 (17%) |
| Missing | 31 (9%) | 61 (9%) | 92 (9%) |
| Vegetable intake   [Exit] | Always or usually | 63 (19%) | 112 (17%) | 175 (17%) |
| Sometimes | 185 (55%) | 307 (46%) | 492 (49%) |
| Never or rarely | 60 (18%) | 220 (33%) | 280 (28%) |
| Missing | 28 (8%) | 35 (5%) | 63 (6%) |
| Prior stroke or heart attack   [Exit] | No | 304 (90%) | 630 (93%) | 934 (92%) |
| Yes | 4 (1%) | 10 (1%) | 14 (1%) |
| Missing | 28 (8%) | 34 (5%) | 62 (6%) |

| **iii) Cardiovascular Risk** | **Category** | **Initiated ART   n (%)** | **Did not initiate ART   n (%)** | **Total   n (%)** |
| --- | --- | --- | --- | --- |
| Blood pressure   [Exit] | Normal | 154 (46%) | 351 (52%) | 505 (50%) |
| Elevated | 98 (29%) | 123 (18%) | 221 (22%) |
| Hypertension Stage 1 | 50 (15%) | 147 (22%) | 197 (20%) |
| Hypertension Stage 2 | 7 (2%) | 25 (4%) | 32 (3%) |
| Missing | 27 (8%) | 28 (4%) | 55 (5%) |
| BMI (kg/m^2)   [Exit] | <18.5 | 5 (1%) | 25 (4%) | 30 (3%) |
| 18.5-24.9 | 126 (38%) | 294 (44%) | 420 (42%) |
| 25-29.9 | 114 (34%) | 205 (30%) | 319 (32%) |
| 30+ | 65 (19%) | 118 (18%) | 183 (18%) |
| Missing | 26 (8%) | 32 (5%) | 58 (6%) |
| Hemoglobin A1C (%)   [Exit] | Normal | 210 (62%) | 428 (64%) | 638 (63%) |
| Prediabetes | 16 (5%) | 38 (6%) | 54 (5%) |
| Diabetes | 0 (0%) | 8 (1%) | 8 (1%) |
| Missing | 110 (33%) | 200 (30%) | 310 (31%) |
| Total cholesterol (mg/dL)   [Exit] | Normal | 304 (90%) | 604 (90%) | 908 (90%) |
| Borderline High | 0 (0%) | 10 (1%) | 10 (1%) |
| High | 1 (0%) | 1 (0%) | 2 (0%) |
| Missing | 31 (9%) | 59 (9%) | 90 (9%) |
| 10-year CVD risk score   [Exit] | <10% | 225 (67%) | 474 (70%) | 699 (69%) |
| Missing | 111 (33%) | 200 (30%) | 311 (31%) |

### Page break

* S3, Table 1: Table 2 by gender (adjusted only)

|  | **Women** | | | | **Men** | | | | **Interaction** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Variable** | **n** | **Adj. Relative Risk** | **Adj. 95% CI** | **Adj. p-value** | **n** | **Adj. Relative Risk** | **Adj. 95% CI** | **Adj. p-value** | **Adj. p-value** |
| Elevated BP | 479 | 0.97 | (0.77,1.21) | 0.760 | 473 | 0.93 | (0.75,1.15) | 0.524 | 0.759 |
| Overweight (BMI >= 25) | 479 | 0.99 | (0.87,1.12) | 0.844 | 470 | 1.05 | (0.82,1.35) | 0.679 | 0.525 |
| Elevated blood sugar (a1c >= 5.7) | 361 | 1.01 | (0.44,2.31) | 0.984 | 337 | 1.33 | (0.72,2.47) | 0.361 | 0.639 |
| Current smoker [baseline] | 494 | 1.28 | (0.55,2.98) | 0.568 | 489 | 1.00 | (0.80,1.24) | 0.987 | 0.537 |

|  | **Women** | | | | **Men** | | | | **Interaction** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Variable** | **n** | **Adj. Mean Difference** | **Adj. 95% CI** | **Adj. p-value** | **n** | **Adj. Mean Difference** | **Adj. 95% CI** | **Adj. p-value** | **Adj. p-value** |
| Systolic BP (mmHg) | 479 | 0.10 | (-1.82, 2.02) | 0.921 | 473 | -1.46 | (-3.31, 0.39) | 0.122 | 0.202 |
| Diastolic BP (mmHg) | 479 | 0.55 | (-0.93, 2.02) | 0.467 | 473 | -0.69 | (-2.20, 0.82) | 0.368 | 0.256 |
| BMI (kg/m^2) | 479 | -0.15 | (-1.12, 0.81) | 0.758 | 470 | -0.09 | (-0.87, 0.68) | 0.817 | 0.761 |
| Hemoglobin A1c (%) | 361 | 0.01 | (-0.10, 0.11) | 0.901 | 337 | 0.07 | (-0.04, 0.19) | 0.207 | 0.486 |
| Total cholesterol (mg/dL) | 454 | 2.30 | (-2.41, 7.01) | 0.338 | 463 | 3.96 | (-0.69, 8.60) | 0.095 | 0.619 |

* S3, Table 2: Table 3 by gender (adjusted only)

|  | **Women** | | | | **Men** | | | | **Interaction** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Variable** | **n** | **Adj. Relative Risk** | **Adj. 95% CI** | **Adj. p-value** | **n** | **Adj. Relative Risk** | **Adj. 95% CI** | **Adj. p-value** | **Adj. p-value** |
| Elevated BP | 479 | 1.26 | (0.96,1.65) | 0.093 | 473 | 0.94 | (0.76,1.16) | 0.556 | 0.178 |
| Overweight (BMI >= 25) | 479 | 1.10 | (0.96,1.27) | 0.172 | 470 | 1.24 | (0.96,1.60) | 0.093 | 0.531 |
| Elevated blood sugar (a1c >= 5.7) | 361 | 1.55 | (0.54,4.44) | 0.418 | 337 | 0.82 | (0.47,1.44) | 0.491 | 0.318 |
| Current smoker [baseline] | 494 | 0.60 | (0.28,1.26) | 0.177 | 489 | 1.01 | (0.82,1.25) | 0.917 | 0.09 |

|  | **Women** | | | | **Men** | | | | **Interaction** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Variable** | **n** | **Adj. Mean Difference** | **Adj. 95% CI** | **Adj. p-value** | **n** | **Adj. Mean Difference** | **Adj. 95% CI** | **Adj. p-value** | **Adj. p-value** |
| Systolic BP (mmHg) | 479 | 1.22 | (-0.68, 3.13) | 0.208 | 473 | -1.06 | (-2.87, 0.75) | 0.252 | 0.191 |
| Diastolic BP (mmHg) | 479 | 0.00 | (-1.48, 1.47) | 0.996 | 473 | -0.46 | (-1.97, 1.04) | 0.548 | 0.785 |
| BMI (kg/m^2) | 479 | 1.05 | (0.02,2.09) | 0.046 | 470 | 0.75 | (0.00,1.50) | 0.049 | 0.488 |
| Hemoglobin A1c (%) | 361 | 0.04 | (-0.07, 0.14) | 0.526 | 337 | -0.05 | (-0.16, 0.07) | 0.450 | 0.447 |
| Total cholesterol (mg/dL) | 454 | 4.37 | (-0.57, 9.31) | 0.083 | 463 | 6.50 | ( 1.78,11.22) | 0.007 | 0.615 |

## Appendix S3, Table 3: Cardiovascular risk among for community vs clinic care RESTICTED TO PEOPLE WHO INITIATIED ART, in South Africa (N = 659).

|  |  | **Unadjusted Analysis** | | | **Adjusted Analysis** | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Variable** | **n** | **Relative Risk** | **95% CI** | **p-value** | **Adj. Relative Risk** | **Adj. 95% CI** | **Adj. p-value** |
| Elevated BP | 644 | 1.07 | (0.85,1.35) | 0.569 | 1.08 | (0.85,1.36) | 0.545 |
| Overweight (BMI >= 25) | 640 | 1.07 | (0.89,1.29) | 0.455 | 1.09 | (0.91,1.32) | 0.323 |
| Elevated blood sugar (a1c >= 5.7) | 473 | 1.58 | (0.86,2.89) | 0.139 | 1.54 | (0.84,2.83) | 0.151 |
| Current smoker [baseline] | 659 | 1.19 | (0.85,1.66) | 0.324 | 1.14 | (0.81,1.60) | 0.414 |

|  |  | **Unadjusted Analysis** | | | **Adjusted Analysis** | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Variable** | **n** | **Mean Difference** | **95% CI** | **p-value** | **Adj. Mean Difference** | **Adj. 95% CI** | **Adj. p-value** |
| Systolic BP (mmHg) | 644 | 0.67 | (-1.35, 2.69) | 0.515 | 0.77 | (-1.25, 2.79) | 0.458 |
| Diastolic BP (mmHg) | 644 | 0.64 | (-0.87, 2.15) | 0.405 | 0.53 | (-0.97, 2.04) | 0.483 |
| BMI (kg/m^2) | 640 | 0.42 | (-0.47, 1.31) | 0.357 | 0.46 | (-0.43, 1.35) | 0.280 |
| Hemoglobin A1c (%) | 473 | 0.02 | (-0.08, 0.12) | 0.696 | 0.02 | (-0.08, 0.11) | 0.759 |
| Total cholesterol (mg/dL) | 613 | 3.39 | (-1.05, 7.82) | 0.134 | 3.14 | (-1.29, 7.58) | 0.164 |

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## Appendix S3, Table 4: Cardiovascular risk among people virally suppressed versus those not virally suppressed at endline and controlling for CD4+ count RESTRICTED TO PEOPLE WHO INITIATIED ART, in South Africa (N = 659).

|  |  | **Unadjusted Analysis** | | | **Adjusted Analysis** | | | **Extended Analysis** | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Variable** | **n** | **Relative Risk** | **95% CI** | **p-value** | **Adj. Relative Risk** | **Adj. 95% CI** | **Adj. p-value** | **Ext. Relative Risk** | **Ext. 95% CI** | **Ext. p-value** |
| Elevated BP | 644 | 1.12 | (0.89,1.42) | 0.338 | 1.16 | (0.92,1.47) | 0.214 | 1.17 | (0.92,1.48) | 0.194 |
| Overweight (BMI >= 25) | 640 | 1.37 | (1.13,1.68) | 0.002 | 1.32 | (1.08,1.61) | 0.004 | 1.32 | (1.09,1.62) | 0.004 |
| Elevated blood sugar (a1c >= 5.7) | 473 | 0.84 | (0.46,1.56) | 0.587 | 0.85 | (0.46,1.57) | 0.585 | 0.84 | (0.46,1.56) | 0.564 |
| Current smoker [baseline] | 659 | 0.75 | (0.56,1.00) | 0.054 | 0.84 | (0.63,1.12) | 0.184 | 0.84 | (0.63,1.12) | 0.187 |

|  |  | **Unadjusted Analysis** | | | **Adjusted Analysis** | | | **Extended Analysis** | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Variable** | **n** | **Mean Difference** | **95% CI** | **p-value** | **Adj. Mean Difference** | **Adj. 95% CI** | **Adj. p-value** | **Ext. Mean Difference** | **Ext. 95% CI** | **Ext. p-value** |
| Systolic BP (mmHg) | 644 | 0.34 | (-1.62, 2.30) | 0.737 | 0.57 | (-1.39, 2.53) | 0.563 | 0.52 | (-1.44, 2.48) | 0.603 |
| Diastolic BP (mmHg) | 644 | -0.07 | (-1.61, 1.46) | 0.924 | -0.05 | (-1.58, 1.49) | 0.952 | -0.19 | (-1.72, 1.35) | 0.808 |
| BMI (kg/m^2) | 640 | 1.83 | (0.96,2.69) | 0.000 | 1.55 | (0.69,2.41) | 0.000 | 1.59 | (0.73,2.45) | 0.000 |
| Hemoglobin A1c (%) | 473 | -0.08 | (-0.19, 0.02) | 0.129 | -0.08 | (-0.19, 0.02) | 0.125 | -0.09 | (-0.20, 0.02) | 0.104 |
| Total cholesterol (mg/dL) | 613 | 6.12 | ( 1.54,10.69) | 0.009 | 5.97 | ( 1.39,10.54) | 0.011 | 6.11 | ( 1.53,10.68) | 0.009 |

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## Appendix S3, Table 5: Cardiovascular risk among people virally suppressed versus those not virally suppressed at endline RESTICTED TO PEOPLE WHO INITIATIED ART, in South Africa (N = 659).

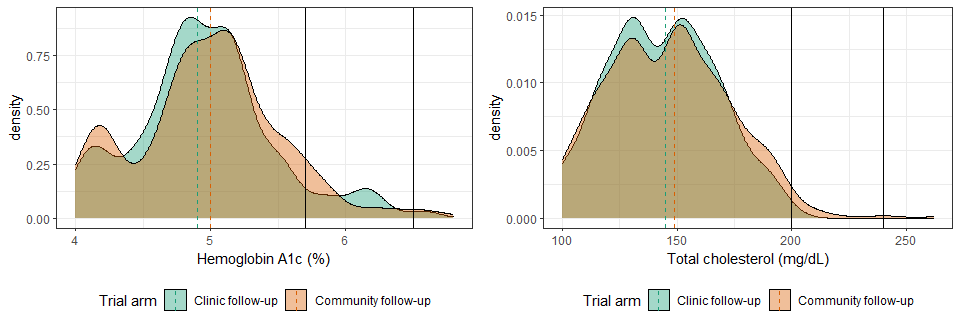
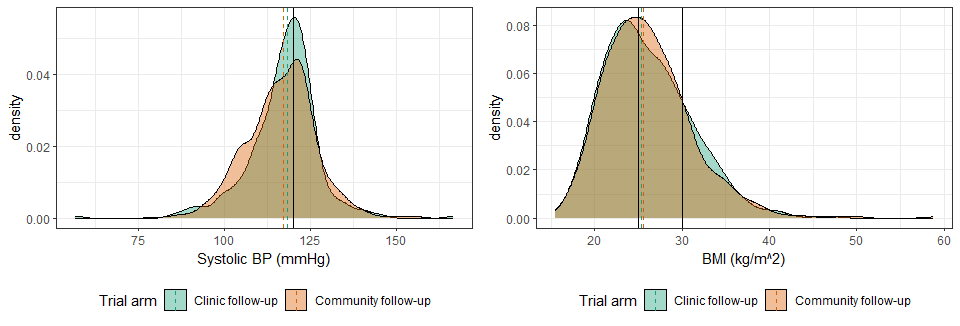
|  | **Clinic follow-up** | | | | **Community follow-up** | | | | **Interaction** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Variable** | **n** | **Adj. Relative Risk** | **Adj. 95% CI** | **Adj. p-value** | **n** | **Adj. Relative Risk** | **Adj. 95% CI** | **Adj. p-value** | **Adj. p-value** |
| Elevated BP | 172 | 0.95 | (0.61,1.47) | 0.806 | 472 | 1.22 | (0.92,1.62) | 0.168 | 0.592 |
| Overweight (BMI >= 25) | 171 | 1.38 | (0.92,2.06) | 0.119 | 469 | 1.27 | (1.02,1.57) | 0.032 | 0.632 |
| Elevated blood sugar (a1c >= 5.7) | 145 | 0.57 | (0.23,1.41) | 0.225 | 328 | 0.96 | (0.47,1.97) | 0.919 | 0.538 |
| Current smoker [baseline] | 177 | 0.74 | (0.44,1.25) | 0.259 | 482 | 0.82 | (0.60,1.10) | 0.186 | 0.995 |

|  | **Clinic follow-up** | | | | **Community follow-up** | | | | **Interaction** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Variable** | **n** | **Adj. Mean Difference** | **Adj. 95% CI** | **Adj. p-value** | **n** | **Adj. Mean Difference** | **Adj. 95% CI** | **Adj. p-value** | **Adj. p-value** |
| Systolic BP (mmHg) | 172 | -2.01 | (-6.12, 2.09) | 0.336 | 472 | 1.27 | (-0.91, 3.45) | 0.253 | 0.298 |
| Diastolic BP (mmHg) | 172 | -0.54 | (-3.44, 2.36) | 0.715 | 472 | 0.11 | (-1.67, 1.88) | 0.908 | 0.572 |
| BMI (kg/m^2) | 171 | 2.24 | (0.72,3.75) | 0.004 | 469 | 1.17 | (0.18,2.17) | 0.021 | 0.245 |
| Hemoglobin A1c (%) | 145 | -0.07 | (-0.24, 0.11) | 0.454 | 328 | -0.10 | (-0.24, 0.03) | 0.120 | 0.795 |
| Total cholesterol (mg/dL) | 166 | 2.84 | (-5.01,10.69) | 0.478 | 447 | 6.56 | ( 0.87,12.25) | 0.024 | 0.479 |

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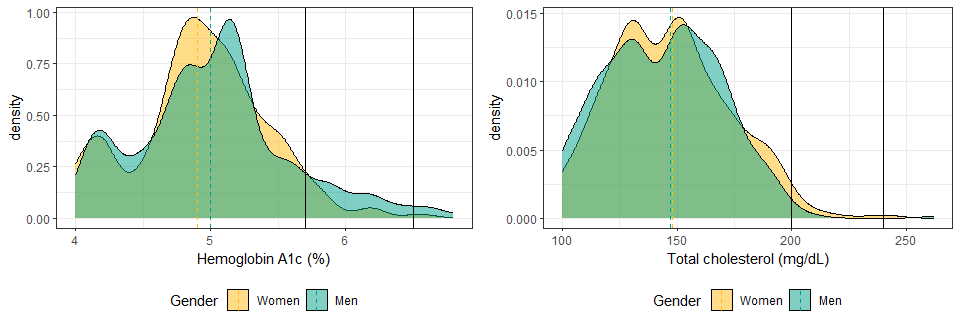
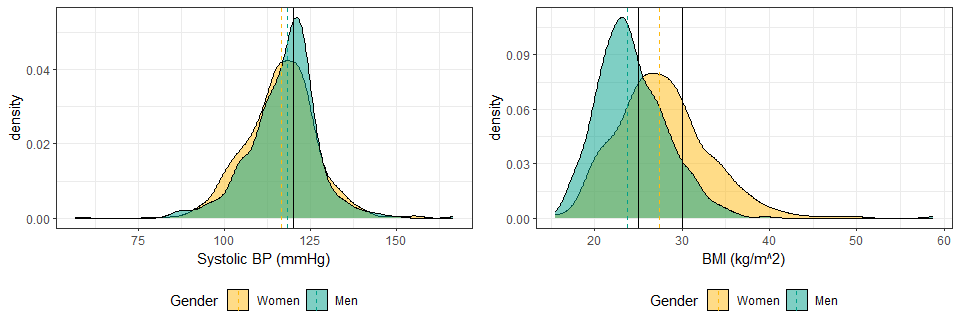
## S4: Additional Figures

## S4 Figure 1: Distribution of clinical CVD measures, by arm [dashed lines are group medians]



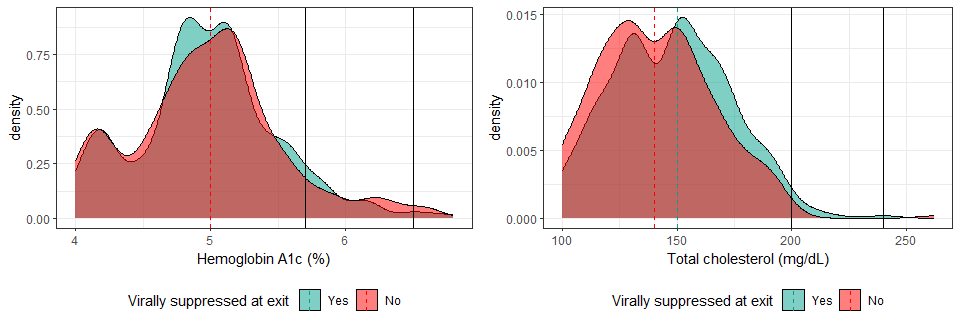
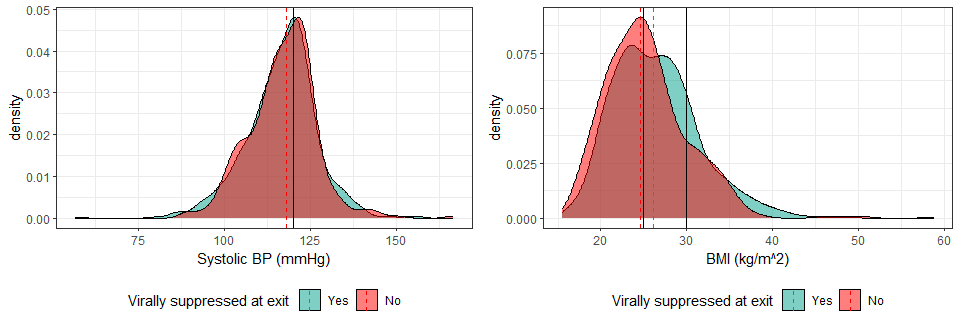
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## S4 Figure 2: Distribution of cardiovascular risk, by gender [dashed lines are group medians]



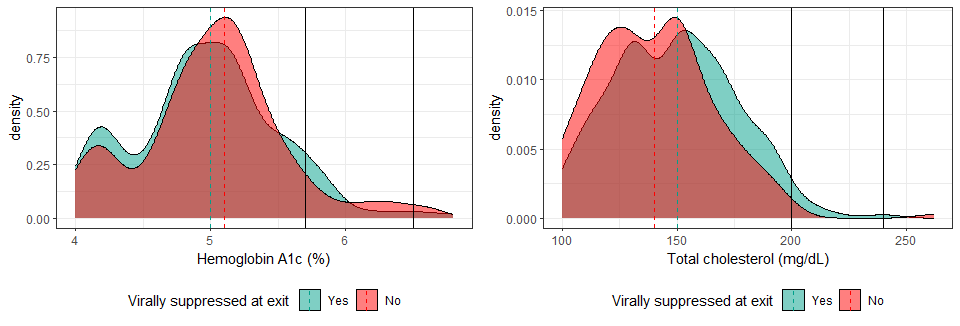
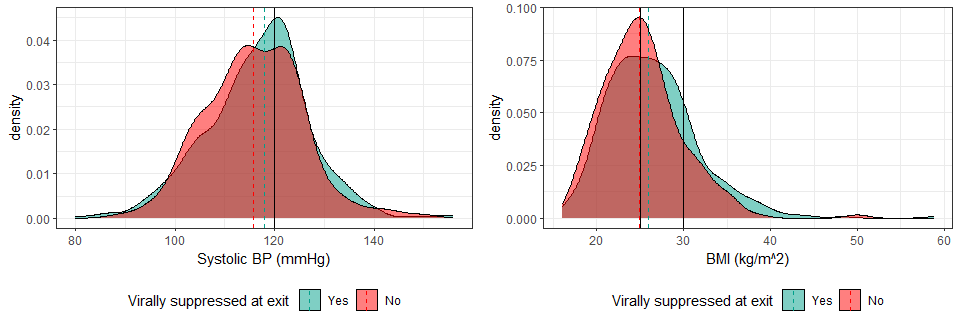
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## S4 Figure 3: Distribution, by VS status at endline [dashed lines are group medians]



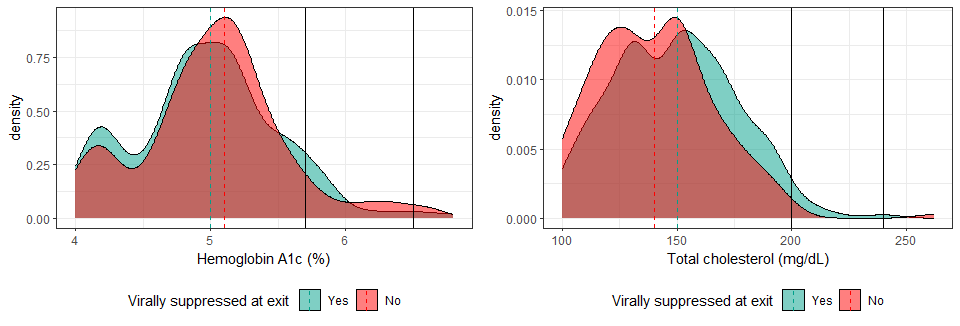
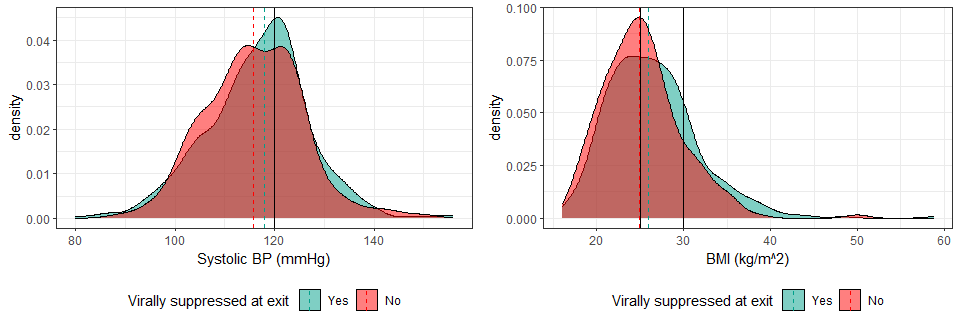
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## S4 Figure 4: Distribution, by VS status at endline [dashed lines are group medians] - CLINIC ONLY



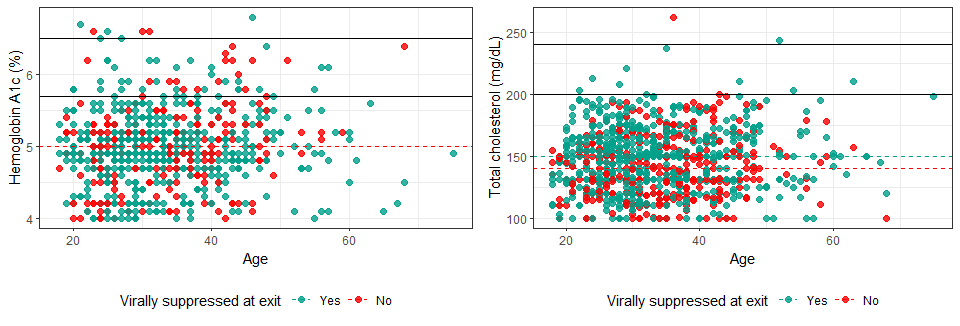
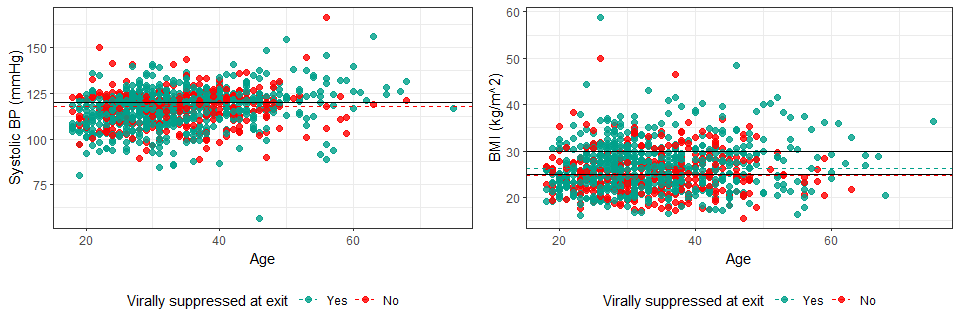
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## S4 Figure 5: Distribution, by VS status at endline [dashed lines are group medians] - COMMUNITY ONLY



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## S4 Figure 6: Distribution of CVD variables by age



### Page Break

## S4 Figure 7: Distribution of CVD variables by education

