Addison’s disease associated with advanced HIV may explain the high mortality

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# Table 1

| Variable | **N** | **Overall**, N = 4291 | **Females**, N = 2181 | **Males**, N = 2111 | **p-value**2 |
| --- | --- | --- | --- | --- | --- |
| **Age at enrolment** | 429 | 36 (31, 42) | 35 (31, 41) | 37 (32, 43) | 0.058 |
| **Ethnicity** | 427 |  |  |  | 0.069 |
| Asian |  | 1 (0.2%) | 0 (0.0%) | 1 (0.5%) |  |
| Black African |  | 356 (83.4%) | 176 (81.1%) | 180 (85.7%) |  |
| Coloured |  | 68 (15.9%) | 41 (18.9%) | 27 (12.9%) |  |
| White |  | 2 (0.5%) | 0 (0.0%) | 2 (1.0%) |  |
| **Duration of current illness** | 399 | 14 (14, 21) | 14 (14, 30) | 14 (14, 21) | 0.3 |
| **Opportunistic infection present** | 426 | 423 (99.3%) | 214 (98.6%) | 209 (100.0%) | 0.2 |
| **log10 viral load** | 96 | 4.47 (3.13, 5.34) | 4.07 (3.22, 5.24) | 4.61 (3.04, 5.37) | >0.9 |
| **Total CD4 count** | 427 | 31 (14, 60) | 32 (15, 58) | 30 (12, 64) | >0.9 |
| **Sodium** | 407 | 134.0 (130.0, 137.0) | 135.0 (131.0, 138.0) | 133.0 (129.0, 136.5) | 0.001 |
| **Potassium** | 408 | 4.05 (3.60, 4.60) | 3.90 (3.50, 4.40) | 4.20 (3.80, 4.70) | <0.001 |
| **Haemoglobin** | 425 | 8.70 (7.40, 10.30) | 8.30 (7.10, 9.50) | 9.30 (7.90, 10.90) | <0.001 |
| **White cell count** | 422 | 5.4 (3.6, 8.0) | 5.6 (3.7, 8.1) | 5.3 (3.5, 7.8) | 0.6 |
| **Lymphocyte count** | 92 | 0.8 (0.4, 1.8) | 0.9 (0.3, 3.5) | 0.8 (0.4, 1.3) | >0.9 |
| **Neutrophils** | 92 | 3 (1, 8) | 3 (1, 10) | 3 (1, 7) | 0.6 |
| **Addisons disease** | 146 | 31 (21.2%) | 16 (19.8%) | 15 (23.1%) | 0.6 |
| **Tuberculosis** | 429 |  |  |  | 0.7 |
| Checked |  | 313 (73.0%) | 161 (73.9%) | 152 (72.0%) |  |
| Unchecked |  | 116 (27.0%) | 57 (26.1%) | 59 (28.0%) |  |
| **Cryptococcus neoformans** | 429 |  |  |  | >0.9 |
| Checked |  | 1 (0.2%) | 1 (0.5%) | 0 (0.0%) |  |
| Unchecked |  | 428 (99.8%) | 217 (99.5%) | 211 (100.0%) |  |
| **Toxoplasmosis** | 429 |  |  |  |  |
| Unchecked |  | 429 (100.0%) | 218 (100.0%) | 211 (100.0%) |  |
| **Mycobacterium avium-intracellulare** | 429 |  |  |  |  |
| Unchecked |  | 429 (100.0%) | 218 (100.0%) | 211 (100.0%) |  |
| **Kaposis sarcoma** | 429 |  |  |  | 0.5 |
| Checked |  | 1 (0.2%) | 0 (0.0%) | 1 (0.5%) |  |
| Unchecked |  | 428 (99.8%) | 218 (100.0%) | 210 (99.5%) |  |
| **Cytomegalovirus** | 429 |  |  |  | 0.5 |
| Checked |  | 1 (0.2%) | 0 (0.0%) | 1 (0.5%) |  |
| Unchecked |  | 428 (99.8%) | 218 (100.0%) | 210 (99.5%) |  |
| **Other** | 429 |  |  |  | 0.5 |
| Checked |  | 113 (26.3%) | 54 (24.8%) | 59 (28.0%) |  |
| Unchecked |  | 316 (73.7%) | 164 (75.2%) | 152 (72.0%) |  |
| 1Median (IQR); n (%) | | | | | |
| 2Wilcoxon rank sum test; Fisher's exact test; Pearson's Chi-squared test | | | | | |

# Table 1.2

| Variable | **N** | **Overall**, N = 4281 | **0 - 30**, N = 2101 | **31 - 60**, N = 1131 | **61 - 100**, N = 1051 | **p-value**2 |
| --- | --- | --- | --- | --- | --- | --- |
| **Age at enrolment** | 428 | 36 (31, 42) | 34 (30, 41) | 37 (32, 43) | 37 (32, 46) | 0.012 |
| **gender** | 427 |  |  |  |  | 0.3 |
| Females |  | 217 (50.8%) | 104 (49.8%) | 64 (56.6%) | 49 (46.7%) |  |
| Males |  | 210 (49.2%) | 105 (50.2%) | 49 (43.4%) | 56 (53.3%) |  |
| **Ethnicity** | 426 |  |  |  |  | 0.2 |
| Asian |  | 1 (0.2%) | 1 (0.5%) | 0 (0.0%) | 0 (0.0%) |  |
| Black African |  | 355 (83.3%) | 180 (86.1%) | 95 (84.1%) | 80 (76.9%) |  |
| Coloured |  | 68 (16.0%) | 27 (12.9%) | 17 (15.0%) | 24 (23.1%) |  |
| White |  | 2 (0.5%) | 1 (0.5%) | 1 (0.9%) | 0 (0.0%) |  |
| **Duration of current illness** | 400 | 14 (14, 21) | 14 (14, 21) | 14 (14, 29) | 14 (8, 21) | 0.3 |
| **Tiredness** | 411 | 349 (84.9%) | 175 (86.2%) | 92 (83.6%) | 82 (83.7%) | 0.8 |
| **Weakness** | 410 | 343 (83.7%) | 170 (84.6%) | 94 (84.7%) | 79 (80.6%) | 0.6 |
| **Poor appetite** | 408 | 307 (75.2%) | 157 (78.1%) | 81 (73.6%) | 69 (71.1%) | 0.4 |
| **Weight loss** | 412 | 363 (88.1%) | 181 (89.2%) | 97 (87.4%) | 85 (86.7%) | 0.8 |
| **Nausea** | 410 | 209 (51.0%) | 115 (56.9%) | 56 (50.9%) | 38 (38.8%) | 0.013 |
| **Vomiting** | 409 | 112 (27.4%) | 57 (28.4%) | 29 (26.4%) | 26 (26.5%) | >0.9 |
| **Diarrhoea** | 407 | 162 (39.8%) | 93 (46.0%) | 41 (37.3%) | 28 (29.5%) | 0.020 |
| **Liking for salt** | 407 | 256 (62.9%) | 138 (68.7%) | 69 (63.3%) | 49 (50.5%) | 0.010 |
| **Dizziness** | 407 | 179 (44.0%) | 100 (49.8%) | 44 (40.0%) | 35 (36.5%) | 0.060 |
| **Loss of consciousness** | 407 | 5 (1.2%) | 3 (1.5%) | 1 (0.9%) | 1 (1.0%) | >0.9 |
| **Hypoglycaemia** | 408 | 9 (2.2%) | 4 (2.0%) | 2 (1.8%) | 3 (3.1%) | 0.8 |
| **Hypotension** | 408 | 30 (7.4%) | 16 (8.0%) | 11 (10.1%) | 3 (3.1%) | 0.14 |
| **BP (systolic)** | 427 | 110 (100, 125) | 110 (100, 123) | 114 (100, 130) | 112 (105, 121) | 0.2 |
| **BP (diastolic)** | 427 | 70 (60, 78) | 70 (60, 80) | 70 (60, 79) | 69 (60, 75) | 0.7 |
| **Any postural drop in blood pressure** | 410 | 14 (3.4%) | 11 (5.4%) | 3 (2.7%) | 0 (0.0%) | 0.038 |
| **Shock** | 411 | 5 (1.2%) | 3 (1.5%) | 1 (0.9%) | 1 (1.0%) | >0.9 |
| **Anorexia** | 409 | 172 (42.1%) | 95 (47.3%) | 45 (40.9%) | 32 (32.7%) | 0.054 |
| **Loss of axillary and pubic hair, if female** | 414 |  |  |  |  | 0.14 |
| No |  | 151 (36.5%) | 67 (32.5%) | 50 (45.5%) | 34 (34.7%) |  |
| Not applicable |  | 195 (47.1%) | 102 (49.5%) | 42 (38.2%) | 51 (52.0%) |  |
| Yes |  | 68 (16.4%) | 37 (18.0%) | 18 (16.4%) | 13 (13.3%) |  |
| **Increased pigmentation of the skin** | 395 | 180 (45.6%) | 98 (49.2%) | 46 (43.0%) | 36 (40.4%) | 0.3 |
| **Presence of anaemia** | 406 | 223 (54.9%) | 119 (59.5%) | 59 (54.1%) | 45 (46.4%) | 0.10 |
| **Haemoglobin g/dL** | 425 | 8.70 (7.40, 10.30) | 8.60 (7.50, 9.90) | 8.70 (7.40, 9.90) | 9.20 (7.40, 11.05) | 0.10 |
| **Presence of an opportunistic infection** | 425 | 422 (99.3%) | 207 (99.5%) | 111 (99.1%) | 104 (99.0%) | >0.9 |
| **White cell count X109** | 422 | 5.3 (3.5, 8.0) | 4.9 (2.7, 6.8) | 5.8 (4.3, 9.0) | 6.6 (4.4, 9.7) | <0.001 |
| **Lymphocyte count X109** | 93 | 0.8 (0.4, 1.8) | 0.6 (0.3, 1.4) | 0.9 (0.5, 1.9) | 1.1 (0.4, 3.9) | 0.2 |
| **Neutrophils** | 93 | 3 (1, 8) | 2 (1, 5) | 6 (2, 14) | 7 (4, 11) | 0.018 |
| **log10 viral load** | 97 | 4.54 (3.16, 5.35) | 5.07 (4.03, 5.55) | 3.58 (2.76, 5.10) | 3.48 (1.70, 4.33) | <0.001 |
| **Sodium mmol/L** | 407 | 134.0 (130.0, 137.0) | 134.0 (130.0, 137.0) | 134.0 (130.0, 137.0) | 133.0 (130.0, 136.0) | >0.9 |
| **Potassium mmol/L** | 408 | 4.10 (3.60, 4.60) | 4.00 (3.60, 4.60) | 4.05 (3.70, 4.50) | 4.20 (3.60, 4.70) | 0.5 |
| **Random cortisol** | 380 | 466 (369, 574) | 486 (388, 575) | 440 (357, 573) | 441 (353, 564) | 0.2 |
| **Basal cortisol** | 148 | 422 (315, 561) | 438 (314, 568) | 432 (350, 531) | 388 (269, 517) | 0.4 |
| **Stimulated cortisol** | 145 | 697 (548, 826) | 716 (529, 834) | 680 (565, 798) | 699 (568, 805) | >0.9 |
| **ACTH** | 380 | 32 (21, 51) | 34 (22, 52) | 29 (17, 48) | 32 (22, 51) | 0.6 |
| **Tuberculosis** | 428 |  |  |  |  | 0.8 |
| Checked |  | 312 (72.9%) | 155 (73.8%) | 83 (73.5%) | 74 (70.5%) |  |
| Unchecked |  | 116 (27.1%) | 55 (26.2%) | 30 (26.5%) | 31 (29.5%) |  |
| **Cryptococcus neoformans** | 428 |  |  |  |  | >0.9 |
| Checked |  | 1 (0.2%) | 1 (0.5%) | 0 (0.0%) | 0 (0.0%) |  |
| Unchecked |  | 427 (99.8%) | 209 (99.5%) | 113 (100.0%) | 105 (100.0%) |  |
| **Mycobacterium avium-intracellulare** | 428 |  |  |  |  |  |
| Unchecked |  | 428 (100.0%) | 210 (100.0%) | 113 (100.0%) | 105 (100.0%) |  |
| **Toxoplasmosis** | 428 |  |  |  |  |  |
| Unchecked |  | 428 (100.0%) | 210 (100.0%) | 113 (100.0%) | 105 (100.0%) |  |
| **Cytomegalovirus** | 428 |  |  |  |  | 0.5 |
| Checked |  | 1 (0.2%) | 0 (0.0%) | 1 (0.9%) | 0 (0.0%) |  |
| Unchecked |  | 427 (99.8%) | 210 (100.0%) | 112 (99.1%) | 105 (100.0%) |  |
| **Kaposis sarcoma** | 428 |  |  |  |  | >0.9 |
| Checked |  | 1 (0.2%) | 1 (0.5%) | 0 (0.0%) | 0 (0.0%) |  |
| Unchecked |  | 427 (99.8%) | 209 (99.5%) | 113 (100.0%) | 105 (100.0%) |  |
| **Other** | 428 |  |  |  |  | 0.3 |
| Checked |  | 114 (26.6%) | 50 (23.8%) | 31 (27.4%) | 33 (31.4%) |  |
| Unchecked |  | 314 (73.4%) | 160 (76.2%) | 82 (72.6%) | 72 (68.6%) |  |
| 1Median (IQR); n (%) | | | | | | |
| 2Kruskal-Wallis rank sum test; Pearson's Chi-squared test; Fisher's exact test | | | | | | |

# Table 2: comparing Addisons status with other variables

| Variable | **N** | **Overall**, N = 311 | **yes**, N = 311 | **no**, N = 01 | **p-value**2 |
| --- | --- | --- | --- | --- | --- |
| **Age at enrolment, median (IQR) (years)** | 31 | 36 (32, 46) | 36 (32, 46) | NA (NA, NA) |  |
| **Gender, n(%)** | 31 |  |  |  | >0.9 |
| Females |  | 16 (51.6%) | 16 (51.6%) | 0 (NA%) |  |
| Males |  | 15 (48.4%) | 15 (48.4%) | 0 (NA%) |  |
| **Ethnicity, n(%)** | 31 |  |  |  | >0.9 |
| Black African |  | 28 (90.3%) | 28 (90.3%) | 0 (NA%) |  |
| Other |  | 3 (9.7%) | 3 (9.7%) | 0 (NA%) |  |
| **Duration of current illness, median (IQR) (days)** | 30 | 14 (14, 30) | 14 (14, 30) | NA (NA, NA) |  |
| **Random cortisol** | 31 | 258 (210, 370) | 258 (210, 370) | NA (NA, NA) |  |
| **Basal cortisol** | 29 | 300 (209, 368) | 300 (209, 368) | NA (NA, NA) |  |
| **Stimulated cortisol** | 30 | 420 (338, 473) | 420 (338, 473) | NA (NA, NA) |  |
| **ACTH** | 31 | 25 (14, 56) | 25 (14, 56) | NA (NA, NA) |  |
| **BP (systolic)** | 31 | 120 (102, 128) | 120 (102, 128) | NA (NA, NA) |  |
| **BP (diastolic)** | 31 | 71 (62, 80) | 71 (62, 80) | NA (NA, NA) |  |
| **Heart rate** | 31 | 86 (78, 108) | 86 (78, 108) | NA (NA, NA) |  |
| **Hypotension** | 31 | 1 (3.2%) | 1 (3.2%) | 0 (NA%) | >0.9 |
| **Weakness** | 31 | 25 (80.6%) | 25 (80.6%) | 0 (NA%) | >0.9 |
| **Tiredness** | 31 | 27 (87.1%) | 27 (87.1%) | 0 (NA%) | >0.9 |
| **Poor appetite** | 31 | 26 (83.9%) | 26 (83.9%) | 0 (NA%) | >0.9 |
| **Weight loss** | 31 | 25 (80.6%) | 25 (80.6%) | 0 (NA%) | >0.9 |
| **Increased pigmentation of the skin** | 28 | 11 (39.3%) | 11 (39.3%) | 0 (NA%) | >0.9 |
| **Nausea** | 31 | 18 (58.1%) | 18 (58.1%) | 0 (NA%) | >0.9 |
| **Vomiting** | 31 | 8 (25.8%) | 8 (25.8%) | 0 (NA%) | >0.9 |
| **Liking for salt** | 31 | 21 (67.7%) | 21 (67.7%) | 0 (NA%) | >0.9 |
| **Hypoglycaemia** | 31 |  |  |  |  |
| No |  | 31 (100.0%) | 31 (100.0%) | 0 (NA%) |  |
| **Loss of consciousness** | 30 |  |  |  |  |
| No |  | 30 (100.0%) | 30 (100.0%) | 0 (NA%) |  |
| **Diarrhoea** | 31 | 9 (29.0%) | 9 (29.0%) | 0 (NA%) | >0.9 |
| **Dizziness** | 30 | 14 (46.7%) | 14 (46.7%) | 0 (NA%) | >0.9 |
| **Shock** | 31 |  |  |  |  |
| No |  | 31 (100.0%) | 31 (100.0%) | 0 (NA%) |  |
| **Anorexia** | 31 | 9 (29.0%) | 9 (29.0%) | 0 (NA%) | >0.9 |
| **Loss of axillary and pubic hair, if female** | 30 |  |  |  | >0.9 |
| No |  | 13 (43.3%) | 13 (43.3%) | 0 (NA%) |  |
| Not applicable |  | 14 (46.7%) | 14 (46.7%) | 0 (NA%) |  |
| Yes |  | 3 (10.0%) | 3 (10.0%) | 0 (NA%) |  |
| **Any postural drop in blood pressure** | 31 | 2 (6.5%) | 2 (6.5%) | 0 (NA%) | >0.9 |
| **Presence of anaemia** | 30 | 15 (50.0%) | 15 (50.0%) | 0 (NA%) | >0.9 |
| **Presence of an opportunistic infection** | 31 |  |  |  |  |
| Yes |  | 31 (100.0%) | 31 (100.0%) | 0 (NA%) |  |
| **Viral load (log10 Copies/mL)** | 4 |  |  |  | >0.9 |
| 2.66850705947214 |  | 1 (25.0%) | 1 (25.0%) | 0 (NA%) |  |
| 4.54181629404385 |  | 1 (25.0%) | 1 (25.0%) | 0 (NA%) |  |
| 5.04006012250337 |  | 1 (25.0%) | 1 (25.0%) | 0 (NA%) |  |
| 5.62839301750855 |  | 1 (25.0%) | 1 (25.0%) | 0 (NA%) |  |
| **Total CD4 count** | 31 | 39 (14, 50) | 39 (14, 50) | NA (NA, NA) |  |
| **Sodium mmol/L** | 31 | 135.0 (132.5, 137.0) | 135.0 (132.5, 137.0) | NA (NA, NA) |  |
| **Potassium mmol/L** | 31 | 3.90 (3.30, 4.35) | 3.90 (3.30, 4.35) | NA (NA, NA) |  |
| **Haemoglobin g/dL** | 31 | 8.70 (7.80, 10.45) | 8.70 (7.80, 10.45) | NA (NA, NA) |  |
| **White cell count X109** | 31 | 5 (3, 7) | 5 (3, 7) | NA (NA, NA) |  |
| **Lymphocyte count X109** | 6 |  |  |  | >0.9 |
| 0.360000014 |  | 1 (16.7%) | 1 (16.7%) | 0 (NA%) |  |
| 0.49000001 |  | 1 (16.7%) | 1 (16.7%) | 0 (NA%) |  |
| 0.600000024 |  | 1 (16.7%) | 1 (16.7%) | 0 (NA%) |  |
| 1.100000024 |  | 1 (16.7%) | 1 (16.7%) | 0 (NA%) |  |
| 1.309999943 |  | 1 (16.7%) | 1 (16.7%) | 0 (NA%) |  |
| 33.59999847 |  | 1 (16.7%) | 1 (16.7%) | 0 (NA%) |  |
| **Neutrophils** | 6 |  |  |  | >0.9 |
| 0.430000007 |  | 1 (16.7%) | 1 (16.7%) | 0 (NA%) |  |
| 0.920000017 |  | 1 (16.7%) | 1 (16.7%) | 0 (NA%) |  |
| 1.019999981 |  | 1 (16.7%) | 1 (16.7%) | 0 (NA%) |  |
| 1.539999962 |  | 1 (16.7%) | 1 (16.7%) | 0 (NA%) |  |
| 1.659999967 |  | 1 (16.7%) | 1 (16.7%) | 0 (NA%) |  |
| 5.329999924 |  | 1 (16.7%) | 1 (16.7%) | 0 (NA%) |  |
| **3 followup\_patientstatus** | 14 |  |  |  | >0.9 |
| Alive |  | 10 (71.4%) | 10 (71.4%) | 0 (NA%) |  |
| Deceased --> EXIT form |  | 4 (28.6%) | 4 (28.6%) | 0 (NA%) |  |
| **6 followup\_patientstatus** | 15 |  |  |  | >0.9 |
| Alive |  | 9 (60.0%) | 9 (60.0%) | 0 (NA%) |  |
| Deceased --> EXIT form |  | 6 (40.0%) | 6 (40.0%) | 0 (NA%) |  |
| **12 followup\_patientstatus** | 19 |  |  |  | >0.9 |
| Alive |  | 12 (63.2%) | 12 (63.2%) | 0 (NA%) |  |
| Deceased --> EXIT form |  | 7 (36.8%) | 7 (36.8%) | 0 (NA%) |  |
| 1Median (IQR); n (%) | | | | | |
| 2Fisher's exact test | | | | | |

## cross-tabulation

| Variable | **Overall**, N = 311 | **PAI**, N = 71 | **SAI**, N = 241 | **p-value**2 |
| --- | --- | --- | --- | --- |
| **Age at enrolment, median (IQR) (years)** | 36 (32, 46) | 40 (35, 45) | 36 (31, 45) | 0.6 |
| **Gender, n(%)** |  |  |  | 0.7 |
| Females | 16 (51.6%) | 3 (42.9%) | 13 (54.2%) |  |
| Males | 15 (48.4%) | 4 (57.1%) | 11 (45.8%) |  |
| **Ethnicity, n(%)** |  |  |  | 0.5 |
| Black African | 28 (90.3%) | 6 (85.7%) | 22 (91.7%) |  |
| Other | 3 (9.7%) | 1 (14.3%) | 2 (8.3%) |  |
| **Duration of current illness, median (IQR) (days)** | 14 (14, 30) | 10 (7, 12) | 21 (14, 30) | 0.012 |
| **Random cortisol** | 258 (210, 370) | 344 (267, 390) | 256 (193, 345) | 0.2 |
| **Basal cortisol** | 300 (209, 368) | 315 (214, 327) | 300 (210, 378) | 0.6 |
| **Stimulated cortisol** | 420 (338, 473) | 403 (363, 435) | 421 (326, 478) | 0.6 |
| **ACTH** | 25 (14, 56) | 144 (80, 158) | 23 (12, 29) | <0.001 |
| **BP (systolic)** | 120 (102, 128) | 120 (120, 124) | 115 (100, 128) | 0.5 |
| **BP (diastolic)** | 71 (62, 80) | 70 (70, 82) | 71 (60, 78) | 0.7 |
| **Heart rate** | 86 (78, 108) | 97 (88, 111) | 85 (77, 107) | 0.11 |
| **Hypotension** | 1 (3.2%) | 0 (0.0%) | 1 (4.2%) | >0.9 |
| **Weakness** | 25 (80.6%) | 4 (57.1%) | 21 (87.5%) | 0.11 |
| **Tiredness** | 27 (87.1%) | 5 (71.4%) | 22 (91.7%) | 0.2 |
| **Poor appetite** | 26 (83.9%) | 6 (85.7%) | 20 (83.3%) | >0.9 |
| **Weight loss** | 25 (80.6%) | 7 (100.0%) | 18 (75.0%) | 0.3 |
| **Increased pigmentation of the skin** | 11 (39.3%) | 3 (60.0%) | 8 (34.8%) | 0.4 |
| **Nausea** | 18 (58.1%) | 5 (71.4%) | 13 (54.2%) | 0.7 |
| **Vomiting** | 8 (25.8%) | 4 (57.1%) | 4 (16.7%) | 0.053 |
| **Liking for salt** | 21 (67.7%) | 5 (71.4%) | 16 (66.7%) | >0.9 |
| **Hypoglycaemia** |  |  |  |  |
| No | 31 (100.0%) | 7 (100.0%) | 24 (100.0%) |  |
| **Loss of consciousness** |  |  |  |  |
| No | 30 (100.0%) | 7 (100.0%) | 23 (100.0%) |  |
| **Diarrhoea** | 9 (29.0%) | 1 (14.3%) | 8 (33.3%) | 0.6 |
| **Dizziness** | 14 (46.7%) | 4 (66.7%) | 10 (41.7%) | 0.4 |
| **Shock** |  |  |  |  |
| No | 31 (100.0%) | 7 (100.0%) | 24 (100.0%) |  |
| **Anorexia** | 9 (29.0%) | 4 (57.1%) | 5 (20.8%) | 0.2 |
| **Loss of axillary and pubic hair, if female** |  |  |  | 0.6 |
| No | 13 (43.3%) | 2 (28.6%) | 11 (47.8%) |  |
| Not applicable | 14 (46.7%) | 4 (57.1%) | 10 (43.5%) |  |
| Yes | 3 (10.0%) | 1 (14.3%) | 2 (8.7%) |  |
| **Any postural drop in blood pressure** | 2 (6.5%) | 0 (0.0%) | 2 (8.3%) | >0.9 |
| **Presence of anaemia** | 15 (50.0%) | 4 (57.1%) | 11 (47.8%) | >0.9 |
| **Presence of an opportunistic infection** |  |  |  |  |
| Yes | 31 (100.0%) | 7 (100.0%) | 24 (100.0%) |  |
| **Viral load (log10 Copies/mL)** | 4.79 (4.07, 5.19) | 5.04 (5.04, 5.04) | 4.54 (3.61, 5.09) | >0.9 |
| **CD4 count** | 39 (14, 50) | 46 (26, 61) | 35 (12, 50) | 0.3 |
| **Sodium mmol/L** | 135.0 (132.5, 137.0) | 133.0 (131.5, 136.5) | 135.5 (133.8, 137.0) | 0.3 |
| **Potassium mmol/L** | 3.90 (3.30, 4.35) | 3.60 (3.25, 3.85) | 3.95 (3.45, 4.52) | 0.3 |
| **Haemoglobin g/dL** | 8.70 (7.80, 10.45) | 10.20 (7.85, 10.35) | 8.70 (7.85, 10.60) | 0.8 |
| **White cell count X109** | 5 (3, 7) | 4 (3, 5) | 5 (4, 11) | 0.3 |
| **Lymphocyte count X109** | 1 (1, 1) | 1 (1, 1) | 1 (0, 1) | 0.7 |
| **Neutrophils** | 1.28 (0.95, 1.63) | 0.92 (0.92, 0.92) | 1.54 (1.02, 1.66) | 0.7 |
| **3 followup\_patientstatus** |  |  |  | 0.5 |
| Alive | 10 (71.4%) | 3 (100.0%) | 7 (63.6%) |  |
| Deceased --> EXIT form | 4 (28.6%) | 0 (0.0%) | 4 (36.4%) |  |
| **6 followup\_patientstatus** |  |  |  | >0.9 |
| Alive | 9 (60.0%) | 2 (50.0%) | 7 (63.6%) |  |
| Deceased --> EXIT form | 6 (40.0%) | 2 (50.0%) | 4 (36.4%) |  |
| **12 followup\_patientstatus** |  |  |  | 0.6 |
| Alive | 12 (63.2%) | 2 (50.0%) | 10 (66.7%) |  |
| Deceased --> EXIT form | 7 (36.8%) | 2 (50.0%) | 5 (33.3%) |  |
| 1Median (IQR); n (%) | | | | |
| 2Wilcoxon rank sum test; Fisher's exact test; Wilcoxon rank sum exact test | | | | |

| Variable | **Overall**, N = 4311 | **AI**, N = 311 | **No-AI**, N = 4001 | **p-value**2 |
| --- | --- | --- | --- | --- |
| **Age at enrolment, median (IQR) (years)** | 36 (31, 42) | 36 (32, 46) | 36 (31, 42) | 0.3 |
| **Gender, n(%)** |  |  |  | >0.9 |
| Females | 218 (50.8%) | 16 (51.6%) | 202 (50.8%) |  |
| Males | 211 (49.2%) | 15 (48.4%) | 196 (49.2%) |  |
| **Ethnicity, n(%)** |  |  |  | 0.3 |
| Black African | 357 (83.4%) | 28 (90.3%) | 329 (82.9%) |  |
| Other | 71 (16.6%) | 3 (9.7%) | 68 (17.1%) |  |
| **Duration of current illness, median (IQR) (days)** | 14 (14, 21) | 14 (14, 30) | 14 (14, 21) | 0.4 |
| **Random cortisol** | 468 (369, 575) | 258 (210, 370) | 486 (388, 582) | <0.001 |
| **Basal cortisol** | 422 (315, 561) | 300 (209, 368) | 473 (368, 580) | <0.001 |
| **Stimulated cortisol** | 697 (548, 826) | 420 (338, 473) | 727 (640, 859) | <0.001 |
| **ACTH** | 32 (21, 51) | 25 (14, 56) | 32 (21, 51) | 0.5 |
| **BP (systolic)** | 110 (100, 125) | 120 (102, 128) | 110 (100, 124) | 0.4 |
| **BP (diastolic)** | 70 (60, 78) | 71 (62, 80) | 69 (60, 77) | 0.074 |
| **Heart rate** | 92 (80, 110) | 86 (78, 108) | 92 (81, 110) | 0.4 |
| **Hypotension** | 30 (7.3%) | 1 (3.2%) | 29 (7.7%) | 0.7 |
| **Weakness** | 343 (83.7%) | 25 (80.6%) | 318 (83.9%) | 0.6 |
| **Tiredness** | 349 (84.9%) | 27 (87.1%) | 322 (84.7%) | >0.9 |
| **Poor appetite** | 307 (75.2%) | 26 (83.9%) | 281 (74.5%) | 0.2 |
| **Weight loss** | 363 (88.1%) | 25 (80.6%) | 338 (88.7%) | 0.2 |
| **Increased pigmentation of the skin** | 180 (45.6%) | 11 (39.3%) | 169 (46.0%) | 0.5 |
| **Nausea** | 209 (51.0%) | 18 (58.1%) | 191 (50.4%) | 0.4 |
| **Vomiting** | 112 (27.4%) | 8 (25.8%) | 104 (27.5%) | 0.8 |
| **Liking for salt** | 256 (62.9%) | 21 (67.7%) | 235 (62.5%) | 0.6 |
| **Hypoglycaemia** | 9 (2.2%) | 0 (0.0%) | 9 (2.4%) | >0.9 |
| **Loss of consciousness** | 5 (1.2%) | 0 (0.0%) | 5 (1.3%) | >0.9 |
| **Diarrhoea** | 162 (39.8%) | 9 (29.0%) | 153 (40.7%) | 0.2 |
| **Dizziness** | 179 (44.0%) | 14 (46.7%) | 165 (43.8%) | 0.8 |
| **Shock** | 5 (1.2%) | 0 (0.0%) | 5 (1.3%) | >0.9 |
| **Anorexia** | 172 (42.1%) | 9 (29.0%) | 163 (43.1%) | 0.13 |
| **Loss of axillary and pubic hair, if female** |  |  |  | 0.6 |
| No | 151 (36.4%) | 13 (43.3%) | 138 (35.8%) |  |
| Not applicable | 196 (47.2%) | 14 (46.7%) | 182 (47.3%) |  |
| Yes | 68 (16.4%) | 3 (10.0%) | 65 (16.9%) |  |
| **Any postural drop in blood pressure** | 14 (3.4%) | 2 (6.5%) | 12 (3.2%) | 0.3 |
| **Presence of anaemia** | 223 (54.9%) | 15 (50.0%) | 208 (55.3%) | 0.6 |
| **Presence of an opportunistic infection** | 424 (99.1%) | 31 (100.0%) | 393 (99.0%) | >0.9 |
| **Viral load (log10 Copies/mL)** | 4.54 (3.16, 5.35) | 4.79 (4.07, 5.19) | 4.40 (3.16, 5.35) | 0.8 |
| **CD4 count** | 31 (14, 60) | 39 (14, 50) | 31 (14, 60) | >0.9 |
| **Sodium mmol/L** | 134.0 (130.0, 137.0) | 135.0 (132.5, 137.0) | 134.0 (130.0, 137.0) | 0.067 |
| **Potassium mmol/L** | 4.10 (3.60, 4.60) | 3.90 (3.30, 4.35) | 4.10 (3.60, 4.60) | 0.12 |
| **Haemoglobin g/dL** | 8.70 (7.40, 10.30) | 8.70 (7.80, 10.45) | 8.70 (7.40, 10.30) | 0.5 |
| **White cell count X109** | 5.3 (3.5, 8.0) | 5.2 (3.1, 7.0) | 5.4 (3.7, 8.1) | 0.7 |
| **Lymphocyte count X109** | 0.8 (0.4, 1.8) | 0.9 (0.5, 1.3) | 0.8 (0.3, 1.9) | 0.6 |
| **Neutrophils** | 3 (1, 8) | 1 (1, 2) | 3 (1, 9) | 0.068 |
| **3 followup\_patientstatus** |  |  |  | 0.3 |
| Alive | 128 (82.6%) | 10 (71.4%) | 118 (83.7%) |  |
| Deceased --> EXIT form | 27 (17.4%) | 4 (28.6%) | 23 (16.3%) |  |
| **6 followup\_patientstatus** |  |  |  | 0.092 |
| Alive | 130 (78.8%) | 9 (60.0%) | 121 (80.7%) |  |
| Deceased --> EXIT form | 35 (21.2%) | 6 (40.0%) | 29 (19.3%) |  |
| **12 followup\_patientstatus** |  |  |  | 0.2 |
| Alive | 142 (76.3%) | 12 (63.2%) | 130 (77.8%) |  |
| Deceased --> EXIT form | 44 (23.7%) | 7 (36.8%) | 37 (22.2%) |  |
| 1Median (IQR); n (%) | | | | |
| 2Wilcoxon rank sum test; Pearson's Chi-squared test; Fisher's exact test | | | | |

## extra table

| Variable | **N** | **yes**, N = 161 | **no**, N = 661 | **p-value**2 |
| --- | --- | --- | --- | --- |
| **Loss of axillary and pubic hair, if female** | 82 | 3 (18.8%) | 25 (37.9%) | 0.15 |
| 1n (%) | | | | |
| 2Pearson's Chi-squared test | | | | |

# Table 3: Bivariate table

# Table 3a: Deep dive on Addison’s disease patients

| Variable | **N** | **yes**, N = 8 | **no**, N = 18 | **p-value** |
| --- | --- | --- | --- | --- |
| **Age at enrolment median (IQR) (years)** | 26 | 40 (30, 48) | 36 (31, 42) | 0.6 |
| **Gender, n(%)** | 26 |  |  | 0.4 |
| Females |  | 3 (37.5%) | 11 (61.1%) |  |
| Males |  | 5 (62.5%) | 7 (38.9%) |  |
| **Ethnicity, n(%)** | 26 |  |  | 0.6 |
| 1 |  | 6 (75.0%) | 15 (83.3%) |  |
| 2 |  | 2 (25.0%) | 3 (16.7%) |  |
| **Duration of current illness, median (IQR) (days)** | 25 | 153 (8, 2,664) | 669 (117, 1,359) | 0.6 |
| **Random cortisol** | 26 | 268 (238, 333) | 382 (341, 447) | 0.005 |
| **Basal cortisol** | 26 | 328 (283, 381) | 538 (480, 636) | <0.001 |
| **Stimulated cortisol** | 26 | 417 (344, 470) | 826 (722, 909) | <0.001 |
| **ACTH** | 26 | 29 (18, 58) | 35 (18, 49) | >0.9 |
| **BP (systolic)** | 26 | 126 (118, 128) | 110 (101, 119) | 0.032 |
| **BP (diastolic)** | 26 | 72 (68, 77) | 70 (63, 79) | >0.9 |
| **Heart rate** | 26 | 84 (77, 94) | 94 (80, 116) | 0.2 |
| **Hypotension** | 26 | 0 (0.0%) | 2 (11.1%) | >0.9 |
| **Weakness** | 26 | 6 (75.0%) | 17 (94.4%) | 0.2 |
| **Tiredness** | 25 | 8 (100.0%) | 16 (94.1%) | >0.9 |
| **Poor appetite** | 26 | 8 (100.0%) | 17 (94.4%) | >0.9 |
| **Weight loss** | 26 | 6 (75.0%) | 17 (94.4%) | 0.2 |
| **Increased pigmentation of the skin** | 24 | 3 (42.9%) | 13 (76.5%) | 0.2 |
| **Nausea** | 26 | 6 (75.0%) | 13 (72.2%) | >0.9 |
| **Vomiting** | 26 | 2 (25.0%) | 5 (27.8%) | >0.9 |
| **Liking for salt** | 26 | 5 (62.5%) | 12 (66.7%) | >0.9 |
| **Hypoglycaemia** | 26 |  |  |  |
| No |  | 8 (100.0%) | 18 (100.0%) |  |
| **Loss of consciousness** | 26 | 0 (0.0%) | 1 (5.6%) | >0.9 |
| **Diarrhoea** | 26 | 2 (25.0%) | 11 (61.1%) | 0.2 |
| **Dizziness** | 25 | 4 (50.0%) | 13 (76.5%) | 0.4 |
| **Shock** | 26 |  |  |  |
| No |  | 8 (100.0%) | 18 (100.0%) |  |
| **Anorexia** | 26 | 3 (37.5%) | 13 (72.2%) | 0.2 |
| **Loss of axillary and pubic hair, if female** | 26 |  |  | 0.3 |
| No |  | 2 (25.0%) | 4 (22.2%) |  |
| Not applicable |  | 5 (62.5%) | 6 (33.3%) |  |
| Yes |  | 1 (12.5%) | 8 (44.4%) |  |
| **Any postural drop in blood pressure** | 26 |  |  |  |
| No |  | 8 (100.0%) | 18 (100.0%) |  |
| **Presence of anaemia** | 26 | 4 (50.0%) | 12 (66.7%) | 0.7 |
| **Presence of an opportunistic infection** | 26 |  |  |  |
| Yes |  | 8 (100.0%) | 18 (100.0%) |  |
| **Tuberculosis** | 26 |  |  | 0.15 |
| Checked |  | 4 (50.0%) | 15 (83.3%) |  |
| Unchecked |  | 4 (50.0%) | 3 (16.7%) |  |
| **Cryptococcus neoformans** | 26 |  |  | >0.9 |
| Checked |  | 0 (0.0%) | 0 (0.0%) |  |
| Unchecked |  | 8 (100.0%) | 18 (100.0%) |  |
| **Toxoplasmosis** | 26 |  |  |  |
| Unchecked |  | 8 (100.0%) | 18 (100.0%) |  |
| **Mycobacterium avium-intracellulare** | 26 |  |  |  |
| Unchecked |  | 8 (100.0%) | 18 (100.0%) |  |
| **Kaposis sarcoma** | 26 |  |  | >0.9 |
| Checked |  | 0 (0.0%) | 0 (0.0%) |  |
| Unchecked |  | 8 (100.0%) | 18 (100.0%) |  |
| **Cytomegalovirus** | 26 |  |  | >0.9 |
| Checked |  | 0 (0.0%) | 0 (0.0%) |  |
| Unchecked |  | 8 (100.0%) | 18 (100.0%) |  |
| **Other** | 26 |  |  | 0.4 |
| Checked |  | 4 (50.0%) | 5 (27.8%) |  |
| Unchecked |  | 4 (50.0%) | 13 (72.2%) |  |
| **Viral load (log10 Copies/mL)** | 5 |  |  | >0.9 |
| 3.28239550474253 |  | 0 (0.0%) | 1 (25.0%) |  |
| 5.09612409790324 |  | 0 (0.0%) | 1 (25.0%) |  |
| 5.48341468588196 |  | 0 (0.0%) | 1 (25.0%) |  |
| 5.62839301750855 |  | 1 (100.0%) | 0 (0.0%) |  |
| 5.73017157394209 |  | 0 (0.0%) | 1 (25.0%) |  |
| **Total CD4 count** | 26 | 44 (16, 50) | 26 (16, 36) | 0.4 |
| **Sodium mmol/L** | 24 | 135.5 (132.5, 139.0) | 129.5 (126.0, 135.0) | 0.050 |
| **Potassium mmol/L** | 25 | 3.85 (3.52, 4.15) | 3.90 (3.60, 4.60) | 0.5 |
| **Haemoglobin g/dL** | 26 | 9.65 (8.55, 10.95) | 8.40 (7.40, 10.67) | 0.4 |
| **White cell count X109** | 26 | 6 (5, 16) | 4 (3, 7) | 0.13 |
| **Lymphocyte count X109** | 7 |  |  | >0.9 |
| 0.100000001 |  | 0 (NA%) | 1 (14.3%) |  |
| 0.400000006 |  | 0 (NA%) | 1 (14.3%) |  |
| 0.449999988 |  | 0 (NA%) | 1 (14.3%) |  |
| 0.560000002 |  | 0 (NA%) | 1 (14.3%) |  |
| 0.920000017 |  | 0 (NA%) | 1 (14.3%) |  |
| 1.309999943 |  | 0 (NA%) | 1 (14.3%) |  |
| 6.199999809 |  | 0 (NA%) | 1 (14.3%) |  |

# Table 3b: Deep dive in mortality status among Addissons cases

| Variable | **N** | **yes**, N = 8 | **no**, N = 23 | **p-value** |
| --- | --- | --- | --- | --- |
| **Age at enrolment median (IQR) (years)** | 31 | 40 (30, 48) | 36 (32, 44) | 0.9 |
| **Gender, n(%)** | 31 |  |  | 0.4 |
| Females |  | 3 (37.5%) | 13 (56.5%) |  |
| Males |  | 5 (62.5%) | 10 (43.5%) |  |
| **Ethnicity, n(%)** | 31 |  |  | 0.2 |
| 1 |  | 6 (75.0%) | 22 (95.7%) |  |
| 2 |  | 2 (25.0%) | 1 (4.3%) |  |
| **Duration of current illness, median (IQR) (days)** | 28 | 153 (8, 2,664) | 2,234 (406, 3,447) | 0.3 |
| **Random cortisol** | 31 | 268 (238, 333) | 258 (210, 378) | 0.8 |
| **Basal cortisol** | 29 | 328 (283, 381) | 284 (185, 350) | 0.3 |
| **Stimulated cortisol** | 30 | 417 (344, 470) | 420 (324, 473) | 0.7 |
| **ACTH** | 31 | 29 (18, 58) | 25 (14, 56) | >0.9 |
| **BP (systolic)** | 31 | 126 (118, 128) | 116 (99, 124) | 0.2 |
| **BP (diastolic)** | 31 | 72 (68, 77) | 71 (60, 80) | >0.9 |
| **Heart rate** | 31 | 84 (77, 94) | 87 (78, 114) | 0.3 |
| **Hypotension** | 31 | 0 (0.0%) | 1 (4.3%) | >0.9 |
| **Weakness** | 31 | 6 (75.0%) | 19 (82.6%) | 0.6 |
| **Tiredness** | 31 | 8 (100.0%) | 19 (82.6%) | 0.5 |
| **Poor appetite** | 31 | 8 (100.0%) | 18 (78.3%) | 0.3 |
| **Weight loss** | 31 | 6 (75.0%) | 19 (82.6%) | 0.6 |
| **Increased pigmentation of the skin** | 28 | 3 (42.9%) | 8 (38.1%) | >0.9 |
| **Nausea** | 31 | 6 (75.0%) | 12 (52.2%) | 0.4 |
| **Vomiting** | 31 | 2 (25.0%) | 6 (26.1%) | >0.9 |
| **Liking for salt** | 31 | 5 (62.5%) | 16 (69.6%) | >0.9 |
| **Hypoglycaemia** | 31 |  |  |  |
| No |  | 8 (100.0%) | 23 (100.0%) |  |
| **Loss of consciousness** | 30 |  |  |  |
| No |  | 8 (100.0%) | 22 (100.0%) |  |
| **Diarrhoea** | 31 | 2 (25.0%) | 7 (30.4%) | >0.9 |
| **Dizziness** | 30 | 4 (50.0%) | 10 (45.5%) | >0.9 |
| **Shock** | 31 |  |  |  |
| No |  | 8 (100.0%) | 23 (100.0%) |  |
| **Anorexia** | 31 | 3 (37.5%) | 6 (26.1%) | 0.7 |
| **Loss of axillary and pubic hair, if female** | 30 |  |  | 0.5 |
| No |  | 2 (25.0%) | 11 (50.0%) |  |
| Not applicable |  | 5 (62.5%) | 9 (40.9%) |  |
| Yes |  | 1 (12.5%) | 2 (9.1%) |  |
| **Any postural drop in blood pressure** | 31 | 0 (0.0%) | 2 (8.7%) | >0.9 |
| **Presence of anaemia** | 30 | 4 (50.0%) | 11 (50.0%) | >0.9 |
| **Presence of an opportunistic infection** | 31 |  |  |  |
| Yes |  | 8 (100.0%) | 23 (100.0%) |  |
| **Tuberculosis** | 31 |  |  | 0.7 |
| Checked |  | 4 (50.0%) | 15 (65.2%) |  |
| Unchecked |  | 4 (50.0%) | 8 (34.8%) |  |
| **Cryptococcus neoformans** | 31 |  |  | >0.9 |
| Checked |  | 0 (0.0%) | 0 (0.0%) |  |
| Unchecked |  | 8 (100.0%) | 23 (100.0%) |  |
| **Toxoplasmosis** | 31 |  |  |  |
| Unchecked |  | 8 (100.0%) | 23 (100.0%) |  |
| **Mycobacterium avium-intracellulare** | 31 |  |  |  |
| Unchecked |  | 8 (100.0%) | 23 (100.0%) |  |
| **Kaposis sarcoma** | 31 |  |  | >0.9 |
| Checked |  | 0 (0.0%) | 0 (0.0%) |  |
| Unchecked |  | 8 (100.0%) | 23 (100.0%) |  |
| **Cytomegalovirus** | 31 |  |  | >0.9 |
| Checked |  | 0 (0.0%) | 1 (4.3%) |  |
| Unchecked |  | 8 (100.0%) | 22 (95.7%) |  |
| **Other** | 31 |  |  | 0.7 |
| Checked |  | 4 (50.0%) | 9 (39.1%) |  |
| Unchecked |  | 4 (50.0%) | 14 (60.9%) |  |
| **Viral load (log10 Copies/mL)** | 4 |  |  | >0.9 |
| 2.66850705947214 |  | 0 (0.0%) | 1 (33.3%) |  |
| 4.54181629404385 |  | 0 (0.0%) | 1 (33.3%) |  |
| 5.04006012250337 |  | 0 (0.0%) | 1 (33.3%) |  |
| 5.62839301750855 |  | 1 (100.0%) | 0 (0.0%) |  |
| **Total CD4 count** | 31 | 44 (16, 50) | 31 (12, 50) | 0.7 |
| **Sodium mmol/L** | 31 | 135.5 (132.5, 139.0) | 135.0 (132.5, 136.5) | 0.8 |
| **Potassium mmol/L** | 31 | 3.85 (3.52, 4.15) | 3.90 (3.30, 4.35) | >0.9 |
| **Haemoglobin g/dL** | 31 | 9.65 (8.55, 10.95) | 8.60 (7.65, 10.25) | 0.3 |
| **White cell count X109** | 31 | 6 (5, 16) | 5 (3, 6) | 0.10 |
| **Lymphocyte count X109** | 6 |  |  | >0.9 |
| 0.360000014 |  | 0 (NA%) | 1 (16.7%) |  |
| 0.49000001 |  | 0 (NA%) | 1 (16.7%) |  |
| 0.600000024 |  | 0 (NA%) | 1 (16.7%) |  |
| 1.100000024 |  | 0 (NA%) | 1 (16.7%) |  |
| 1.309999943 |  | 0 (NA%) | 1 (16.7%) |  |
| 33.59999847 |  | 0 (NA%) | 1 (16.7%) |  |
| **Addisons disease** | 31 | 8 (100.0%) | 23 (100.0%) | >0.9 |

| **Characteristic** | **N** | **HR**1 | **95% CI**1 | **p-value** |
| --- | --- | --- | --- | --- |
| Age\_at\_enrolment | 430 | 1.02 | 0.99, 1.05 | 0.2 |
| gender | 429 |  |  |  |
| Females |  | — | — |  |
| Males |  | 0.78 | 0.45, 1.34 | 0.4 |
| Ethnicity | 428 |  |  |  |
| 1 |  | — | — |  |
| 2 |  | 0.89 | 0.42, 1.88 | 0.8 |
| HIV\_duration | 350 | 1.00 | 1.00, 1.00 | 0.5 |
| Random\_cortisol | 381 | 1.00 | 1.00, 1.00 | 0.8 |
| Basal\_cortisol | 148 | 1.00 | 1.00, 1.00 | 0.2 |
| Stimulated\_cortisol | 145 | 1.00 | 1.00, 1.00 | >0.9 |
| ACTH | 381 | 1.01 | 1.00, 1.01 | 0.002 |
| BP\_systolic | 428 | 0.99 | 0.98, 1.01 | 0.4 |
| BP\_diastolic | 428 | 1.01 | 0.99, 1.03 | 0.2 |
| Heart\_rate | 427 | 1.00 | 0.99, 1.01 | >0.9 |
| Hypotension | 409 |  |  |  |
| No |  | — | — |  |
| Yes |  | 1.73 | 0.74, 4.05 | 0.2 |
| Weakness | 410 |  |  |  |
| No |  | — | — |  |
| Yes |  | 1.48 | 0.63, 3.48 | 0.4 |
| Tiredness | 411 |  |  |  |
| No |  | — | — |  |
| Yes |  | 2.10 | 0.76, 5.84 | 0.2 |
| Poor\_appetite | 408 |  |  |  |
| No |  | — | — |  |
| Yes |  | 3.21 | 1.27, 8.07 | 0.013 |
| Weight\_loss | 412 |  |  |  |
| No |  | — | — |  |
| Yes |  | 0.84 | 0.38, 1.85 | 0.7 |
| Increased\_pigmentation\_of\_the\_skin | 395 |  |  |  |
| No |  | — | — |  |
| Yes |  | 1.78 | 1.01, 3.15 | 0.047 |
| Nausea | 410 |  |  |  |
| No |  | — | — |  |
| Yes |  | 2.01 | 1.12, 3.60 | 0.019 |
| Vomiting | 409 |  |  |  |
| No |  | — | — |  |
| Yes |  | 1.13 | 0.62, 2.06 | 0.7 |
| Liking\_for\_salt | 407 |  |  |  |
| No |  | — | — |  |
| Yes |  | 1.45 | 0.80, 2.66 | 0.2 |
| Hypoglycaemia | 408 |  |  |  |
| No |  | — | — |  |
| Yes |  | 0.84 | 0.12, 6.09 | 0.9 |
| Loss\_of\_consciousness | 407 |  |  |  |
| No |  | — | — |  |
| Yes |  | 3.74 | 0.91, 15.4 | 0.068 |
| Diarrhoea | 407 |  |  |  |
| No |  | — | — |  |
| Yes |  | 1.61 | 0.93, 2.80 | 0.087 |
| Dizziness | 407 |  |  |  |
| No |  | — | — |  |
| Yes |  | 1.99 | 1.13, 3.51 | 0.017 |
| Shock | 411 |  |  |  |
| No |  | — | — |  |
| Yes |  | 3.69 | 0.90, 15.2 | 0.071 |
| Anorexia | 409 |  |  |  |
| No |  | — | — |  |
| Yes |  | 1.88 | 1.08, 3.27 | 0.026 |
| Loss\_of\_axillary\_and\_pubic\_hair | 415 |  |  |  |
| No |  | — | — |  |
| Not applicable |  | 1.09 | 0.55, 2.17 | 0.8 |
| Yes |  | 2.69 | 1.31, 5.50 | 0.007 |
| Any\_postural\_drop\_in\_blood\_pressure | 410 |  |  |  |
| No |  | — | — |  |
| Yes |  | 1.86 | 0.58, 5.98 | 0.3 |
| Presence\_of\_anaemia | 406 |  |  |  |
| No |  | — | — |  |
| Yes |  | 1.18 | 0.68, 2.07 | 0.6 |
| Tuberculosis | 431 |  |  |  |
| Checked |  | — | — |  |
| Unchecked |  | 1.15 | 0.64, 2.08 | 0.6 |
| Kaposis\_sarcoma | 431 |  |  |  |
| Checked |  | — | — |  |
| Unchecked |  | 1,207,331 | 0.00, Inf | >0.9 |
| Cytomegalovirus | 431 |  |  |  |
| Checked |  | — | — |  |
| Unchecked |  | 1,207,331 | 0.00, Inf | >0.9 |
| Other | 431 |  |  |  |
| Checked |  | — | — |  |
| Unchecked |  | 0.75 | 0.42, 1.33 | 0.3 |
| Viral\_load | 97 | 1.57 | 1.00, 2.47 | 0.049 |
| CD4\_count | 428 | 0.99 | 0.98, 1.00 | 0.2 |
| Sodium | 408 | 0.99 | 0.95, 1.04 | 0.7 |
| Potassium | 409 | 0.85 | 0.63, 1.15 | 0.3 |
| Haemoglobin | 426 | 1.00 | 0.97, 1.02 | 0.8 |
| White\_cell\_count | 423 | 1.00 | 1.00, 1.00 | 0.8 |
| Lymphocyte\_count | 93 | 0.86 | 0.68, 1.09 | 0.2 |
| Addisons\_disease | 146 |  |  |  |
| no |  | — | — |  |
| yes |  | 1.82 | 0.79, 4.18 | 0.2 |
| 1HR = Hazard Ratio, CI = Confidence Interval | | | | |

# Table 4: Multivariate table mortality

The rule of thumb for MV models such as this on you need at least 10 people per outcome. We have 53 people with the outcome, yet we have 6 variables adjusted for in the model (using stepwise regression). I suggest we remove one variable from the list that you think may not be biologically contributing in the relationship. (see accompanying file)

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CD4.count Sodium Potassium.mmol.L Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 16 2 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral.load..log10.Copies.mL. CD4.count Sodium Potassium.mmol.L Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 16 3 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral.load..log10.Copies.mL. CD4.count Sodium Potassium.mmol.L Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 16 4 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral.load..log10.Copies.mL. CD4.count Sodium Potassium.mmol.L Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 16 5 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral.load..log10.Copies.mL. CD4.count Sodium Potassium.mmol.L Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 17 1 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral.load..log10.Copies.mL. CD4.count Sodium Potassium.mmol.L Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 17 2 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral.load..log10.Copies.mL. CD4.count Sodium Potassium.mmol.L Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 17 3 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral.load..log10.Copies.mL. CD4.count Sodium Potassium.mmol.L Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 17 4 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral.load..log10.Copies.mL. CD4.count Sodium Potassium.mmol.L Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 17 5 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral.load..log10.Copies.mL. CD4.count Sodium Potassium.mmol.L Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 18 1 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral.load..log10.Copies.mL. CD4.count Sodium Potassium.mmol.L Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 18 2 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral.load..log10.Copies.mL. CD4.count Sodium Potassium.mmol.L Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 18 3 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral.load..log10.Copies.mL. CD4.count Sodium Potassium.mmol.L Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 18 4 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral.load..log10.Copies.mL. CD4.count Sodium Potassium.mmol.L Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 18 5 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral.load..log10.Copies.mL. CD4.count Sodium Potassium.mmol.L Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 19 1 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral.load..log10.Copies.mL. CD4.count Sodium Potassium.mmol.L Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 19 2 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral.load..log10.Copies.mL. CD4.count Sodium Potassium.mmol.L Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 19 3 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral.load..log10.Copies.mL. CD4.count Sodium Potassium.mmol.L Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 19 4 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral.load..log10.Copies.mL. CD4.count Sodium Potassium.mmol.L Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 19 5 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral.load..log10.Copies.mL. CD4.count Sodium Potassium.mmol.L Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 20 1 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral.load..log10.Copies.mL. CD4.count Sodium Potassium.mmol.L Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 20 2 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral.load..log10.Copies.mL. CD4.count Sodium Potassium.mmol.L Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 20 3 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral.load..log10.Copies.mL. CD4.count Sodium Potassium.mmol.L Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 20 4 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral.load..log10.Copies.mL. CD4.count Sodium Potassium.mmol.L Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 20 5 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral.load..log10.Copies.mL. CD4.count Sodium Potassium.mmol.L Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate Start: AIC=636.34 Surv(ttdeath, mortality) ~ 1

Df AIC

* AI\_recoded 1 633.71
* Lymphocyte\_count 1 634.55
* Potassium.mmol.L 1 635.12 636.34
* Viral.load..log10.Copies.mL. 1 636.39
* Age\_at\_enrolment 1 636.42
* CD4.count 1 636.78
* gender 1 637.52
* Neutrophils 1 637.54
* Duration\_of\_current\_illness 1 637.66
* Sodium 1 638.08
* Haemoglobin 1 638.14
* Ethnicity 1 638.25
* White\_cell\_count 1 638.30

Step: AIC=633.71 Surv(ttdeath, mortality) ~ AI\_recoded

Df AIC

* Potassium.mmol.L 1 632.65 633.71
* Lymphocyte\_count 1 633.78
* Viral.load..log10.Copies.mL. 1 634.18
* Age\_at\_enrolment 1 634.22
* CD4.count 1 634.24
* Neutrophils 1 634.69
* Duration\_of\_current\_illness 1 634.76
* gender 1 634.95
* Sodium 1 635.24
* Haemoglobin 1 635.53
* White\_cell\_count 1 635.68
* Ethnicity 1 635.69
* AI\_recoded 1 636.34

Step: AIC=632.65 Surv(ttdeath, mortality) ~ AI\_recoded + Potassium.mmol.L

Df AIC

632.65 + Age\_at\_enrolment 1 632.93 + Lymphocyte\_count 1 633.01 + CD4.count 1 633.43 + Viral.load..log10.Copies.mL. 1 633.49 + Duration\_of\_current\_illness 1 633.70 - Potassium.mmol.L 1 633.71 + Neutrophils 1 634.23 + Sodium 1 634.26 + gender 1 634.30 + Haemoglobin 1 634.48 + White\_cell\_count 1 634.63 + Ethnicity 1 634.64 - AI\_recoded 1 635.12 Start: AIC=636.34 Surv(ttdeath, mortality) ~ 1

Df AIC

* AI\_recoded 1 633.71
* Viral.load..log10.Copies.mL. 1 635.19
* Potassium.mmol.L 1 635.24 636.34
* Age\_at\_enrolment 1 636.40
* CD4.count 1 636.78
* Neutrophils 1 636.83
* gender 1 637.52
* Sodium 1 637.71
* Duration\_of\_current\_illness 1 637.78
* Haemoglobin 1 638.15
* Ethnicity 1 638.25
* White\_cell\_count 1 638.29
* Lymphocyte\_count 1 638.33

Step: AIC=633.71 Surv(ttdeath, mortality) ~ AI\_recoded

Df AIC

* Potassium.mmol.L 1 632.78 633.71
* Viral.load..log10.Copies.mL. 1 634.09
* Age\_at\_enrolment 1 634.20
* CD4.count 1 634.25
* Neutrophils 1 634.38
* Sodium 1 634.73
* Duration\_of\_current\_illness 1 634.89
* gender 1 634.95
* Haemoglobin 1 635.53
* Lymphocyte\_count 1 635.58
* White\_cell\_count 1 635.68
* Ethnicity 1 635.69
* AI\_recoded 1 636.34

Step: AIC=632.78 Surv(ttdeath, mortality) ~ AI\_recoded + Potassium.mmol.L

Df AIC

632.78 + Viral.load..log10.Copies.mL. 1 633.01 + Age\_at\_enrolment 1 633.02 + CD4.count 1 633.62 + Neutrophils 1 633.68 - Potassium.mmol.L 1 633.71 + Sodium 1 633.86 + Duration\_of\_current\_illness 1 633.90 + gender 1 634.41 + Lymphocyte\_count 1 634.51 + Haemoglobin 1 634.62 + Ethnicity 1 634.77 + White\_cell\_count 1 634.77 - AI\_recoded 1 635.24 Start: AIC=636.34 Surv(ttdeath, mortality) ~ 1

Df AIC

* AI\_recoded 1 633.71
* Potassium.mmol.L 1 634.47
* Lymphocyte\_count 1 635.83
* Viral.load..log10.Copies.mL. 1 636.27 636.34
* Age\_at\_enrolment 1 636.39
* CD4.count 1 636.66
* Neutrophils 1 636.77
* Sodium 1 637.38
* gender 1 637.45
* Duration\_of\_current\_illness 1 637.64
* Haemoglobin 1 638.15
* Ethnicity 1 638.19
* White\_cell\_count 1 638.29

Step: AIC=633.71 Surv(ttdeath, mortality) ~ AI\_recoded

Df AIC

* Potassium.mmol.L 1 632.10
* Lymphocyte\_count 1 633.22
* Viral.load..log10.Copies.mL. 1 633.33 633.71
* CD4.count 1 634.14
* Age\_at\_enrolment 1 634.19
* Sodium 1 634.32
* Neutrophils 1 634.41
* Duration\_of\_current\_illness 1 634.74
* gender 1 634.89
* Haemoglobin 1 635.53
* Ethnicity 1 635.66
* White\_cell\_count 1 635.68
* AI\_recoded 1 636.34

Step: AIC=632.1 Surv(ttdeath, mortality) ~ AI\_recoded + Potassium.mmol.L

Df AIC

* Lymphocyte\_count 1 631.69
* Viral.load..log10.Copies.mL. 1 631.79 632.10
* Age\_at\_enrolment 1 632.37
* Sodium 1 632.76
* CD4.count 1 632.83
* Duration\_of\_current\_illness 1 633.09
* Neutrophils 1 633.14
* Potassium.mmol.L 1 633.71
* gender 1 633.76
* Haemoglobin 1 633.95
* White\_cell\_count 1 634.07
* Ethnicity 1 634.08
* AI\_recoded 1 634.47

Step: AIC=631.69 Surv(ttdeath, mortality) ~ AI\_recoded + Potassium.mmol.L + Lymphocyte\_count

Df AIC

* Viral.load..log10.Copies.mL. 1 629.71 631.69
* Lymphocyte\_count 1 632.10
* Duration\_of\_current\_illness 1 632.32
* Sodium 1 632.51
* Age\_at\_enrolment 1 632.62
* CD4.count 1 632.81
* Potassium.mmol.L 1 633.22
* Neutrophils 1 633.30
* gender 1 633.39
* Haemoglobin 1 633.57
* White\_cell\_count 1 633.66
* Ethnicity 1 633.69
* AI\_recoded 1 634.08

Step: AIC=629.71 Surv(ttdeath, mortality) ~ AI\_recoded + Potassium.mmol.L + Lymphocyte\_count + Viral.load..log10.Copies.mL.

Df AIC

629.71 + Duration\_of\_current\_illness 1 630.74 - Potassium.mmol.L 1 630.99 + Sodium 1 631.02 + Age\_at\_enrolment 1 631.04 + gender 1 631.51 + Neutrophils 1 631.55 + Ethnicity 1 631.62 + Haemoglobin 1 631.66 + CD4.count 1 631.69 - Viral.load..log10.Copies.mL. 1 631.69 + White\_cell\_count 1 631.71 - Lymphocyte\_count 1 631.79 - AI\_recoded 1 632.81 Start: AIC=636.34 Surv(ttdeath, mortality) ~ 1

Df AIC

* AI\_recoded 1 633.71
* Potassium.mmol.L 1 635.27
* Viral.load..log10.Copies.mL. 1 635.69 636.34
* Age\_at\_enrolment 1 636.44
* CD4.count 1 636.61
* gender 1 637.45
* Duration\_of\_current\_illness 1 637.60
* Sodium 1 638.02
* Haemoglobin 1 638.14
* Neutrophils 1 638.18
* Lymphocyte\_count 1 638.20
* Ethnicity 1 638.25
* White\_cell\_count 1 638.29

Step: AIC=633.71 Surv(ttdeath, mortality) ~ AI\_recoded

Df AIC

* Potassium.mmol.L 1 632.77 633.71
* CD4.count 1 634.09
* Age\_at\_enrolment 1 634.23
* Viral.load..log10.Copies.mL. 1 634.24
* Duration\_of\_current\_illness 1 634.70
* gender 1 634.89
* Sodium 1 635.14
* Lymphocyte\_count 1 635.34
* Haemoglobin 1 635.52
* Neutrophils 1 635.59
* White\_cell\_count 1 635.68
* Ethnicity 1 635.69
* AI\_recoded 1 636.34

Step: AIC=632.77 Surv(ttdeath, mortality) ~ AI\_recoded + Potassium.mmol.L

Df AIC

* Viral.load..log10.Copies.mL. 1 632.70 632.77
* Age\_at\_enrolment 1 632.98
* CD4.count 1 633.49
* Potassium.mmol.L 1 633.71
* Duration\_of\_current\_illness 1 633.72
* White\_cell\_count 1 634.07
* Sodium 1 634.26
* gender 1 634.33
* Lymphocyte\_count 1 634.43
* Haemoglobin 1 634.59
* Neutrophils 1 634.71
* Ethnicity 1 634.75
* AI\_recoded 1 635.27

Step: AIC=632.7 Surv(ttdeath, mortality) ~ AI\_recoded + Potassium.mmol.L + Viral.load..log10.Copies.mL.

Df AIC

632.70 - Viral.load..log10.Copies.mL. 1 632.77 + Age\_at\_enrolment 1 633.18 + Lymphocyte\_count 1 633.62 + Duration\_of\_current\_illness 1 633.81 - AI\_recoded 1 633.92 + gender 1 633.97 + White\_cell\_count 1 634.16 + Sodium 1 634.22 - Potassium.mmol.L 1 634.24 + CD4.count 1 634.34 + Haemoglobin 1 634.60 + Ethnicity 1 634.62 + Neutrophils 1 634.63 Start: AIC=636.34 Surv(ttdeath, mortality) ~ 1

Df AIC

* Viral.load..log10.Copies.mL. 1 622.76
* AI\_recoded 1 633.71
* Potassium.mmol.L 1 634.60 636.34
* Age\_at\_enrolment 1 636.45
* CD4.count 1 636.64
* Sodium 1 637.43
* gender 1 637.52
* Duration\_of\_current\_illness 1 637.66
* Haemoglobin 1 638.14
* Lymphocyte\_count 1 638.17
* Ethnicity 1 638.19
* Neutrophils 1 638.22
* White\_cell\_count 1 638.29

Step: AIC=622.76 Surv(ttdeath, mortality) ~ Viral.load..log10.Copies.mL.

Df AIC

* Potassium.mmol.L 1 618.53
* gender 1 621.27
* AI\_recoded 1 621.82 622.76
* Ethnicity 1 623.88
* Age\_at\_enrolment 1 623.95
* Sodium 1 624.42
* Duration\_of\_current\_illness 1 624.57
* Lymphocyte\_count 1 624.65
* Haemoglobin 1 624.71
* Neutrophils 1 624.72
* CD4.count 1 624.74
* White\_cell\_count 1 624.76
* Viral.load..log10.Copies.mL. 1 636.34

Step: AIC=618.53 Surv(ttdeath, mortality) ~ Viral.load..log10.Copies.mL. + Potassium.mmol.L

Df AIC

* AI\_recoded 1 617.68
* gender 1 618.04 618.53
* Ethnicity 1 619.58
* Age\_at\_enrolment 1 619.69
* Sodium 1 620.17
* CD4.count 1 620.26
* Lymphocyte\_count 1 620.28
* Duration\_of\_current\_illness 1 620.33
* Haemoglobin 1 620.50
* Neutrophils 1 620.53
* White\_cell\_count 1 620.53
* Potassium.mmol.L 1 622.76
* Viral.load..log10.Copies.mL. 1 634.60

Step: AIC=617.68 Surv(ttdeath, mortality) ~ Viral.load..log10.Copies.mL. + Potassium.mmol.L + AI\_recoded

Df AIC

* gender 1 617.37 617.68
* AI\_recoded 1 618.53
* Age\_at\_enrolment 1 618.77
* Sodium 1 619.01
* Ethnicity 1 619.06
* Lymphocyte\_count 1 619.24
* Duration\_of\_current\_illness 1 619.36
* CD4.count 1 619.40
* Haemoglobin 1 619.65
* Neutrophils 1 619.66
* White\_cell\_count 1 619.67
* Potassium.mmol.L 1 621.82
* Viral.load..log10.Copies.mL. 1 632.19

Step: AIC=617.37 Surv(ttdeath, mortality) ~ Viral.load..log10.Copies.mL. + Potassium.mmol.L + AI\_recoded + gender

Df AIC

617.37 - gender 1 617.68 - AI\_recoded 1 618.04 + Age\_at\_enrolment 1 618.12 + Lymphocyte\_count 1 618.35 + Sodium 1 618.38 + Ethnicity 1 618.53 + CD4.count 1 618.99 + Duration\_of\_current\_illness 1 619.04 + Haemoglobin 1 619.35 + White\_cell\_count 1 619.35 + Neutrophils 1 619.37 - Potassium.mmol.L 1 620.50 - Viral.load..log10.Copies.mL. 1 633.84 votes AI\_recoded gender 5 1 Lymphocyte\_count Potassium.mmol.L 1 5 Viral.load..log10.Copies.mL. 3 term estimate std.error statistic df p.value 1 AI\_recodedNo-AI -0.828116468 0.40719165 -2.03372653 40.937727 0.04849492 2 gender -0.197208249 0.28571402 -0.69022952 45.277620 0.49357294 3 Lymphocyte\_count -0.002243387 0.02692477 -0.08332057 8.379134 0.93555297 4 Potassium.mmol.L -0.118944667 0.12382395 -0.96059498 45.627698 0.34181890 5 Age\_at\_enrolment 0.020727300 0.01542522 1.34372838 43.121794 0.18606448 2.5 % 97.5 % 1 -1.65049469 -0.005738251 2 -0.77256845 0.378151951 3 -0.06384639 0.059359620 4 -0.36824425 0.130354915 5 -0.01037807 0.051832672 png 2

# Table 5 univariate analysis for addisson’s disease

| **Characteristic** | **N** | **OR**1 | **95% CI**1 | **p-value** |
| --- | --- | --- | --- | --- |
| Age\_at\_enrolment | 430 | 0.98 | 0.94, 1.02 | 0.3 |
| gender | 429 | 1.03 | 0.50, 2.17 | >0.9 |
| Ethnicity | 428 | 1.93 | 0.66, 8.23 | 0.3 |
| Duration\_of\_current\_illness | 400 | 1.00 | 1.00, 1.00 | 0.066 |
| Random\_cortisol | 381 | 1.02 | 1.01, 1.02 | <0.001 |
| Basal cortisol | 148 | 1.01 | 1.01, 1.01 | <0.001 |
| Stimulated cortisol | 145 | 1.03 | 1.02, 1.05 | <0.001 |
| ACTH | 381 | 1.00 | 0.99, 1.00 | 0.2 |
| BP (systolic) | 428 | 1.00 | 0.98, 1.02 | 0.7 |
| BP (diastolic) | 428 | 0.98 | 0.96, 1.01 | 0.2 |
| Any postural drop in blood pressure | 410 |  |  |  |
| No |  | — | — |  |
| Yes |  | 0.47 | 0.12, 3.14 | 0.3 |
| Heart rate | 427 | 1.01 | 0.99, 1.03 | 0.4 |
| Hypotension | 409 |  |  |  |
| No |  | — | — |  |
| Yes |  | 2.49 | 0.50, 45.2 | 0.4 |
| Weakness | 410 |  |  |  |
| No |  | — | — |  |
| Yes |  | 1.25 | 0.45, 3.00 | 0.6 |
| Tiredness | 411 |  |  |  |
| No |  | — | — |  |
| Yes |  | 0.82 | 0.24, 2.20 | 0.7 |
| Poor appetite | 408 |  |  |  |
| No |  | — | — |  |
| Yes |  | 0.56 | 0.19, 1.39 | 0.3 |
| Weight loss | 412 |  |  |  |
| No |  | — | — |  |
| Yes |  | 1.89 | 0.67, 4.59 | 0.2 |
| Increased pigmentation of the skin | 395 |  |  |  |
| No |  | — | — |  |
| Yes |  | 1.32 | 0.61, 2.98 | 0.5 |
| Nausea | 410 |  |  |  |
| No |  | — | — |  |
| Yes |  | 0.73 | 0.34, 1.53 | 0.4 |
| Vomiting | 409 |  |  |  |
| No |  | — | — |  |
| Yes |  | 1.09 | 0.49, 2.67 | 0.8 |
| Liking for salt | 407 |  |  |  |
| No |  | — | — |  |
| Yes |  | 0.79 | 0.35, 1.69 | 0.6 |
| Hypoglycaemia | 408 |  |  |  |
| No |  | — | — |  |
| Yes |  | 1,318,457 | 0.00, NA | >0.9 |
| Loss of consciousness | 407 |  |  |  |
| No |  | — | — |  |
| Yes |  | 1,262,207 | 0.00, NA | >0.9 |
| Diarrhoea | 407 |  |  |  |
| No |  | — | — |  |
| Yes |  | 1.68 | 0.77, 3.93 | 0.2 |
| Dizziness | 407 |  |  |  |
| No |  | — | — |  |
| Yes |  | 0.89 | 0.42, 1.90 | 0.8 |
| Shock | 411 |  |  |  |
| No |  | — | — |  |
| Yes |  | 1,293,846 | 0.00, NA | >0.9 |
| Anorexia | 409 |  |  |  |
| No |  | — | — |  |
| Yes |  | 1.85 | 0.86, 4.34 | 0.13 |
| Loss of axillary and pubic hair, if female | 415 |  |  |  |
| No |  | — | — |  |
| Not applicable |  | 1.22 | 0.55, 2.70 | 0.6 |
| Yes |  | 2.04 | 0.63, 9.12 | 0.3 |
| Presence of anaemia | 406 |  |  |  |
| No |  | — | — |  |
| Yes |  | 1.24 | 0.58, 2.62 | 0.6 |
| Presence of an opportunistic infection | 428 |  |  |  |
| No |  | — | — |  |
| Yes |  | 0.00 |  | >0.9 |
| Viral load (log10 Copies/mL) | 97 | 0.88 | 0.40, 1.74 | 0.7 |
| CD4 count | 428 | 1.00 | 0.99, 1.02 | 0.8 |
| Sodium mmol/L | 408 | 0.97 | 0.92, 1.02 | 0.2 |
| Potassium mmol/L | 409 | 1.00 | 0.95, 1.12 | >0.9 |
| Haemoglobin g/dL | 426 | 1.00 | 0.99, NA | 0.8 |
| White cell count X109 | 423 | 1.00 | 1.00, 1.00 | 0.5 |
| Lymphocyte count X109 | 93 | 0.96 | 0.88, 1.08 | 0.4 |
| Neutrophils | 93 | 1.35 | 1.05, 2.52 | 0.2 |
| 3 followup\_patientstatus | 155 |  |  |  |
| Alive |  | — | — |  |
| Deceased --> EXIT form |  | 0.49 | 0.15, 1.90 | 0.3 |
| 6 followup\_patientstatus | 165 |  |  |  |
| Alive |  | — | — |  |
| Deceased --> EXIT form |  | 0.36 | 0.12, 1.15 | 0.071 |
| 12 followup\_patientstatus | 186 |  |  |  |
| Alive |  | — | — |  |
| Deceased --> EXIT form |  | 0.49 | 0.18, 1.39 | 0.2 |
| Tuberculosis | 431 |  |  |  |
| No |  | — | — |  |
| Yes |  | 1.75 | 0.80, 3.69 | 0.15 |
| Other | 431 |  |  |  |
| No |  | — | — |  |
| Yes |  | 0.47 | 0.22, 1.01 | 0.047 |
| 1OR = Odds Ratio, CI = Confidence Interval | | | | |

iter imp variable 1 1 Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_diastolic Sodium Lymphocyte\_count 1 2 Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_diastolic Sodium Lymphocyte\_count 1 3 Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_diastolic Sodium Lymphocyte\_count 1 4 Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_diastolic Sodium Lymphocyte\_count 1 5 Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_diastolic Sodium Lymphocyte\_count 2 1 Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_diastolic Sodium Lymphocyte\_count 2 2 Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_diastolic Sodium Lymphocyte\_count 2 3 Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_diastolic Sodium Lymphocyte\_count 2 4 Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_diastolic Sodium Lymphocyte\_count 2 5 Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH 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Df Deviance AIC

* Stimulated\_cortisol 1 83.58 87.58
* Random\_cortisol 1 147.87 151.87
* Basal\_cortisol 1 159.05 163.05
* Lymphocyte\_count 1 218.41 222.41
* Other 1 219.13 223.13
* Tuberculosis 1 220.88 224.88 222.91 224.91
* BP\_diastolic 1 221.10 225.10
* ACTH 1 221.25 225.25
* Sodium 1 221.50 225.50

Step: AIC=87.58 AI\_recoded ~ Stimulated\_cortisol

Df Deviance AIC

* Random\_cortisol 1 63.254 69.254
* Basal\_cortisol 1 79.439 85.439
* BP\_diastolic 1 80.265 86.265
* Sodium 1 81.525 87.525 83.580 87.580
* Tuberculosis 1 82.808 88.808
* Lymphocyte\_count 1 83.156 89.156
* Other 1 83.551 89.551
* ACTH 1 83.580 89.580
* Stimulated\_cortisol 1 222.906 224.906

Step: AIC=69.25 AI\_recoded ~ Stimulated\_cortisol + Random\_cortisol

Df Deviance AIC

* BP\_diastolic 1 58.139 66.139
* Lymphocyte\_count 1 60.625 68.625 63.254 69.254
* Sodium 1 62.089 70.089
* ACTH 1 62.296 70.296
* Other 1 63.180 71.180
* Basal\_cortisol 1 63.245 71.245
* Tuberculosis 1 63.253 71.253
* Random\_cortisol 1 83.580 87.580
* Stimulated\_cortisol 1 147.874 151.874

Step: AIC=66.14 AI\_recoded ~ Stimulated\_cortisol + Random\_cortisol + BP\_diastolic

Df Deviance AIC

* Lymphocyte\_count 1 54.735 64.735 58.139 66.139
* Sodium 1 56.909 66.909
* Other 1 57.452 67.452
* ACTH 1 57.503 67.503
* Basal\_cortisol 1 58.014 68.014
* Tuberculosis 1 58.137 68.137
* BP\_diastolic 1 63.254 69.254
* Random\_cortisol 1 80.265 86.265
* Stimulated\_cortisol 1 145.455 151.455

Step: AIC=64.74 AI\_recoded ~ Stimulated\_cortisol + Random\_cortisol + BP\_diastolic + Lymphocyte\_count

Df Deviance AIC

54.735 64.735 + Sodium 1 53.284 65.284 + ACTH 1 53.293 65.293 + Other 1 53.441 65.441 - Lymphocyte\_count 1 58.139 66.139 + Basal\_cortisol 1 54.656 66.656 + Tuberculosis 1 54.660 66.660 - BP\_diastolic 1 60.625 68.625 - Random\_cortisol 1 79.621 87.621 - Stimulated\_cortisol 1 134.294 142.294 Start: AIC=224.91 AI\_recoded ~ 1

Df Deviance AIC

* Stimulated\_cortisol 1 64.725 68.725
* Random\_cortisol 1 146.615 150.615
* Basal\_cortisol 1 152.581 156.581
* Lymphocyte\_count 1 208.171 212.171
* Other 1 219.135 223.135
* Tuberculosis 1 220.884 224.884 222.906 224.906
* Sodium 1 221.016 225.016
* BP\_diastolic 1 221.037 225.037
* ACTH 1 221.819 225.819

Step: AIC=68.73 AI\_recoded ~ Stimulated\_cortisol

Df Deviance AIC

* Random\_cortisol 1 50.027 56.027
* Sodium 1 60.141 66.141
* Lymphocyte\_count 1 62.623 68.623 64.725 68.725
* Basal\_cortisol 1 63.332 69.332
* Tuberculosis 1 63.736 69.736
* BP\_diastolic 1 64.071 70.071
* Other 1 64.120 70.120
* ACTH 1 64.301 70.301
* Stimulated\_cortisol 1 222.906 224.906

Step: AIC=56.03 AI\_recoded ~ Stimulated\_cortisol + Random\_cortisol

Df Deviance AIC

50.027 56.027 + Lymphocyte\_count 1 48.113 56.113 + BP\_diastolic 1 48.806 56.806 + Tuberculosis 1 49.204 57.204 + Sodium 1 49.429 57.429 + Other 1 49.744 57.744 + Basal\_cortisol 1 49.878 57.878 + ACTH 1 49.963 57.963 - Random\_cortisol 1 64.725 68.725 - Stimulated\_cortisol 1 146.615 150.615 Start: AIC=224.91 AI\_recoded ~ 1

Df Deviance AIC

* Stimulated\_cortisol 1 83.996 87.996
* Random\_cortisol 1 147.018 151.018
* Basal\_cortisol 1 159.889 163.889
* Other 1 219.135 223.135
* Tuberculosis 1 220.884 224.884 222.906 224.906
* Sodium 1 220.975 224.975
* BP\_diastolic 1 221.111 225.111
* ACTH 1 221.356 225.356
* Lymphocyte\_count 1 222.768 226.768

Step: AIC=88 AI\_recoded ~ Stimulated\_cortisol

Df Deviance AIC

* Random\_cortisol 1 66.924 72.924
* BP\_diastolic 1 81.000 87.000
* Basal\_cortisol 1 81.394 87.394
* Lymphocyte\_count 1 81.910 87.910 83.996 87.996
* Other 1 83.464 89.464
* Sodium 1 83.663 89.663
* Tuberculosis 1 83.675 89.675
* ACTH 1 83.953 89.953
* Stimulated\_cortisol 1 222.906 224.906

Step: AIC=72.92 AI\_recoded ~ Stimulated\_cortisol + Random\_cortisol

Df Deviance AIC

* Lymphocyte\_count 1 63.579 71.579
* BP\_diastolic 1 63.743 71.743 66.924 72.924
* ACTH 1 65.740 73.740
* Tuberculosis 1 66.265 74.265
* Other 1 66.702 74.702
* Basal\_cortisol 1 66.863 74.863
* Sodium 1 66.915 74.915
* Random\_cortisol 1 83.996 87.996
* Stimulated\_cortisol 1 147.018 151.018

Step: AIC=71.58 AI\_recoded ~ Stimulated\_cortisol + Random\_cortisol + Lymphocyte\_count

Df Deviance AIC

* BP\_diastolic 1 61.452 71.452 63.579 71.579
* Tuberculosis 1 62.224 72.224
* ACTH 1 62.715 72.715
* Lymphocyte\_count 1 66.924 72.924
* Basal\_cortisol 1 63.174 73.174
* Sodium 1 63.449 73.449
* Other 1 63.551 73.551
* Random\_cortisol 1 81.910 87.910
* Stimulated\_cortisol 1 146.523 152.523

Step: AIC=71.45 AI\_recoded ~ Stimulated\_cortisol + Random\_cortisol + Lymphocyte\_count + BP\_diastolic

Df Deviance AIC

61.452 71.452 - BP\_diastolic 1 63.579 71.579 - Lymphocyte\_count 1 63.743 71.743 + Tuberculosis 1 60.724 72.724 + ACTH 1 60.856 72.856 + Basal\_cortisol 1 61.152 73.152 + Other 1 61.199 73.199 + Sodium 1 61.391 73.391 - Random\_cortisol 1 79.802 87.802 - Stimulated\_cortisol 1 144.566 152.566 Start: AIC=224.91 AI\_recoded ~ 1

Df Deviance AIC

* Stimulated\_cortisol 1 81.92 85.92
* Random\_cortisol 1 152.61 156.61
* Basal\_cortisol 1 157.97 161.97
* Lymphocyte\_count 1 216.57 220.57
* Other 1 219.13 223.13
* Tuberculosis 1 220.88 224.88 222.91 224.91
* BP\_diastolic 1 221.07 225.07
* ACTH 1 221.07 225.07
* Sodium 1 221.20 225.20

Step: AIC=85.92 AI\_recoded ~ Stimulated\_cortisol

Df Deviance AIC

* Random\_cortisol 1 71.349 77.349
* BP\_diastolic 1 77.191 83.191 81.920 85.920
* Tuberculosis 1 80.889 86.889
* Sodium 1 80.914 86.914
* Basal\_cortisol 1 81.251 87.251
* Other 1 81.761 87.761
* Lymphocyte\_count 1 81.833 87.833
* ACTH 1 81.914 87.914
* Stimulated\_cortisol 1 222.906 224.906

Step: AIC=77.35 AI\_recoded ~ Stimulated\_cortisol + Random\_cortisol

Df Deviance AIC

* BP\_diastolic 1 65.990 73.990 71.349 77.349
* Tuberculosis 1 70.199 78.199
* ACTH 1 70.397 78.397
* Other 1 70.789 78.789
* Lymphocyte\_count 1 70.896 78.896
* Sodium 1 71.120 79.120
* Basal\_cortisol 1 71.303 79.303
* Random\_cortisol 1 81.920 85.920
* Stimulated\_cortisol 1 152.614 156.614

Step: AIC=73.99 AI\_recoded ~ Stimulated\_cortisol + Random\_cortisol + BP\_diastolic

Df Deviance AIC

65.990 73.990 + Tuberculosis 1 64.418 74.418 + Other 1 64.912 74.912 + Sodium 1 65.261 75.261 + ACTH 1 65.382 75.382 + Lymphocyte\_count 1 65.727 75.727 + Basal\_cortisol 1 65.915 75.915 - BP\_diastolic 1 71.349 77.349 - Random\_cortisol 1 77.191 83.191 - Stimulated\_cortisol 1 150.276 156.276 Start: AIC=224.91 AI\_recoded ~ 1

Df Deviance AIC

* Stimulated\_cortisol 1 76.262 80.262
* Random\_cortisol 1 150.221 154.221
* Basal\_cortisol 1 172.422 176.422
* Lymphocyte\_count 1 210.180 214.180
* Other 1 219.135 223.135
* Tuberculosis 1 220.884 224.884 222.906 224.906
* BP\_diastolic 1 221.013 225.013
* Sodium 1 221.183 225.183
* ACTH 1 221.268 225.268

Step: AIC=80.26 AI\_recoded ~ Stimulated\_cortisol

Df Deviance AIC

* Random\_cortisol 1 55.374 61.374
* Lymphocyte\_count 1 68.087 74.087
* Sodium 1 70.142 76.142
* BP\_diastolic 1 73.752 79.752 76.262 80.262
* Basal\_cortisol 1 75.606 81.606
* Other 1 75.797 81.797
* Tuberculosis 1 75.851 81.851
* ACTH 1 75.993 81.993
* Stimulated\_cortisol 1 222.906 224.906

Step: AIC=61.37 AI\_recoded ~ Stimulated\_cortisol + Random\_cortisol

Df Deviance AIC

* Lymphocyte\_count 1 49.451 57.451
* BP\_diastolic 1 52.270 60.270 55.374 61.374
* Sodium 1 53.835 61.835
* Basal\_cortisol 1 54.128 62.128
* ACTH 1 55.096 63.096
* Other 1 55.341 63.341
* Tuberculosis 1 55.368 63.368
* Random\_cortisol 1 76.262 80.262
* Stimulated\_cortisol 1 150.221 154.221

Step: AIC=57.45 AI\_recoded ~ Stimulated\_cortisol + Random\_cortisol + Lymphocyte\_count

Df Deviance AIC

* BP\_diastolic 1 46.308 56.308 49.451 57.451
* Sodium 1 47.558 57.558
* Other 1 48.315 58.315
* ACTH 1 48.403 58.403
* Tuberculosis 1 48.694 58.694
* Basal\_cortisol 1 48.713 58.713
* Lymphocyte\_count 1 55.374 61.374
* Random\_cortisol 1 68.087 74.087
* Stimulated\_cortisol 1 132.048 138.048

Step: AIC=56.31 AI\_recoded ~ Stimulated\_cortisol + Random\_cortisol + Lymphocyte\_count + BP\_diastolic

Df Deviance AIC

* Sodium 1 43.796 55.796
* Other 1 44.271 56.271 46.308 56.308
* Tuberculosis 1 44.992 56.992
* BP\_diastolic 1 49.451 57.451
* Basal\_cortisol 1 45.604 57.604
* ACTH 1 45.804 57.804
* Lymphocyte\_count 1 52.270 60.270
* Random\_cortisol 1 64.376 72.376
* Stimulated\_cortisol 1 127.494 135.494

Step: AIC=55.8 AI\_recoded ~ Stimulated\_cortisol + Random\_cortisol + Lymphocyte\_count + BP\_diastolic + Sodium

Df Deviance AIC

* Other 1 41.200 55.200 43.796 55.796
* Tuberculosis 1 42.109 56.109
* Basal\_cortisol 1 42.262 56.262
* Sodium 1 46.308 56.308
* ACTH 1 43.191 57.191
* BP\_diastolic 1 47.558 57.558
* Lymphocyte\_count 1 49.894 59.894
* Random\_cortisol 1 57.076 67.076
* Stimulated\_cortisol 1 127.468 137.468

Step: AIC=55.2 AI\_recoded ~ Stimulated\_cortisol + Random\_cortisol + Lymphocyte\_count + BP\_diastolic + Sodium + Other

Df Deviance AIC

* Basal\_cortisol 1 38.998 54.998 41.200 55.200
* Other 1 43.796 55.796
* Sodium 1 44.271 56.271
* ACTH 1 40.715 56.715
* Tuberculosis 1 41.109 57.109
* BP\_diastolic 1 46.296 58.296
* Lymphocyte\_count 1 49.321 61.321
* Random\_cortisol 1 55.657 67.657
* Stimulated\_cortisol 1 126.655 138.655

Step: AIC=55 AI\_recoded ~ Stimulated\_cortisol + Random\_cortisol + Lymphocyte\_count + BP\_diastolic + Sodium + Other + Basal\_cortisol

Df Deviance AIC

38.998 54.998 - Basal\_cortisol 1 41.200 55.200 - Other 1 42.262 56.262 + Tuberculosis 1 38.649 56.649 + ACTH 1 38.678 56.678 - Sodium 1 43.308 57.308 - BP\_diastolic 1 44.420 58.420 - Lymphocyte\_count 1 45.962 59.962 - Random\_cortisol 1 55.359 69.359 - Stimulated\_cortisol 1 118.796 132.796 votes Basal\_cortisol BP\_diastolic Lymphocyte\_count Other 1 4 3 1 Random\_cortisol Sodium Stimulated\_cortisol 5 1 5 term estimate std.error statistic df 1 (Intercept) -6.934960268 3.706714969 -1.8709181 14.41861 2 ACTH 0.002344489 0.006643271 0.3529118 129.55286 3 Stimulated\_cortisol 0.021291826 0.004999961 4.2583981 18.48749 4 BP\_diastolic -0.042567130 0.028888784 -1.4734829 83.32175 p.value 2.5 % 97.5 % 1 0.0817903614 -14.86347357 0.99355303 2 0.7247281087 -0.01079886 0.01548783 3 0.0004483155 0.01080712 0.03177654 4 0.1443888336 -0.10002248 0.01488822