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

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# Table 1

| Variable | **N** | **Overall**, N = 5251 | **Females**, N = 2691 | **Males**, N = 2561 | **p-value**2 |
| --- | --- | --- | --- | --- | --- |
| **Age at enrolment** | 524 | 36 (31, 43) | 35 (31, 42) | 37 (32, 45) | 0.017 |
| **Ethnicity** | 523 |  |  |  | 0.050 |
| Asian |  | 1 (0.2%) | 0 (0.0%) | 1 (0.4%) |  |
| Black African |  | 420 (80.3%) | 210 (78.4%) | 210 (82.4%) |  |
| Coloured |  | 99 (18.9%) | 58 (21.6%) | 41 (16.1%) |  |
| White |  | 3 (0.6%) | 0 (0.0%) | 3 (1.2%) |  |
| **Duration of current illness** | 491 | 14 (12, 21) | 14 (12, 21) | 14 (13, 21) | 0.6 |
| **Opportunistic infection present** | 521 | 518 (99.4%) | 264 (98.9%) | 254 (100.0%) | 0.2 |
| **log10 viral load** | 115 | 4.66 (3.22, 5.34) | 4.50 (3.11, 5.30) | 4.66 (3.35, 5.45) | 0.8 |
| **Total CD4 count** | 519 | 33 (15, 61) | 33 (15, 58) | 33 (13, 64) | >0.9 |
| **Sodium** | 495 | 134.0 (130.0, 137.0) | 134.0 (131.0, 138.0) | 133.0 (129.0, 136.0) | <0.001 |
| **Potassium** | 494 | 4.10 (3.60, 4.60) | 3.90 (3.50, 4.43) | 4.20 (3.90, 4.70) | <0.001 |
| **Haemoglobin** | 519 | 8.70 (7.40, 10.30) | 8.25 (7.10, 9.58) | 9.30 (7.90, 10.90) | <0.001 |
| **White cell count** | 515 | 5.4 (3.7, 8.1) | 5.3 (3.5, 8.0) | 5.4 (3.8, 8.3) | 0.8 |
| **Lymphocyte count** | 120 | 0.8 (0.4, 1.8) | 0.9 (0.3, 2.4) | 0.8 (0.5, 1.4) | 0.8 |
| **Neutrophils** | 122 | 3 (1, 8) | 3 (2, 10) | 3 (1, 7) | 0.6 |
| **Addisons disease** | 152 | 43 (28.3%) | 22 (26.5%) | 21 (30.4%) | 0.6 |
| **Tuberculosis** | 525 |  |  |  | 0.6 |
| Checked |  | 368 (70.1%) | 191 (71.0%) | 177 (69.1%) |  |
| Unchecked |  | 157 (29.9%) | 78 (29.0%) | 79 (30.9%) |  |
| **Cryptococcus neoformans** | 525 |  |  |  | >0.9 |
| Checked |  | 1 (0.2%) | 1 (0.4%) | 0 (0.0%) |  |
| Unchecked |  | 524 (99.8%) | 268 (99.6%) | 256 (100.0%) |  |
| **Toxoplasmosis** | 525 |  |  |  |  |
| Unchecked |  | 525 (100.0%) | 269 (100.0%) | 256 (100.0%) |  |
| **Mycobacterium avium-intracellulare** | 525 |  |  |  |  |
| Unchecked |  | 525 (100.0%) | 269 (100.0%) | 256 (100.0%) |  |
| **Kaposis sarcoma** | 525 |  |  |  | 0.5 |
| Checked |  | 1 (0.2%) | 0 (0.0%) | 1 (0.4%) |  |
| Unchecked |  | 524 (99.8%) | 269 (100.0%) | 255 (99.6%) |  |
| **Cytomegalovirus** | 525 |  |  |  | 0.5 |
| Checked |  | 1 (0.2%) | 0 (0.0%) | 1 (0.4%) |  |
| Unchecked |  | 524 (99.8%) | 269 (100.0%) | 255 (99.6%) |  |
| **Other** | 525 |  |  |  | 0.5 |
| Checked |  | 156 (29.7%) | 76 (28.3%) | 80 (31.3%) |  |
| Unchecked |  | 369 (70.3%) | 193 (71.7%) | 176 (68.8%) |  |
| 1Median (IQR); n (%) | | | | | |
| 2Wilcoxon rank sum test; Fisher's exact test; Pearson's Chi-squared test | | | | | |

# Table 1.2

| Variable | **N** | **Overall**, N = 5221 | **0 - 30**, N = 2461 | **31 - 60**, N = 1441 | **61 - 100**, N = 1321 | **p-value**2 |
| --- | --- | --- | --- | --- | --- | --- |
| **Age at enrolment** | 522 | 36 (31, 43) | 35 (30, 42) | 37 (32, 43) | 37 (32, 46) | 0.013 |
| **gender** | 519 |  |  |  |  | 0.2 |
| Females |  | 267 (51.4%) | 124 (50.4%) | 82 (57.7%) | 61 (46.6%) |  |
| Males |  | 252 (48.6%) | 122 (49.6%) | 60 (42.3%) | 70 (53.4%) |  |
| **Ethnicity** | 520 |  |  |  |  | 0.5 |
| Asian |  | 1 (0.2%) | 1 (0.4%) | 0 (0.0%) | 0 (0.0%) |  |
| Black African |  | 417 (80.2%) | 203 (82.9%) | 113 (78.5%) | 101 (77.1%) |  |
| Coloured |  | 100 (19.2%) | 40 (16.3%) | 30 (20.8%) | 30 (22.9%) |  |
| White |  | 2 (0.4%) | 1 (0.4%) | 1 (0.7%) | 0 (0.0%) |  |
| **Duration of current illness** | 491 | 14 (12, 21) | 14 (14, 21) | 14 (10, 22) | 14 (7, 21) | 0.059 |
| **Tiredness** | 501 | 426 (85.0%) | 206 (86.2%) | 118 (83.7%) | 102 (84.3%) | 0.8 |
| **Weakness** | 501 | 423 (84.4%) | 203 (85.7%) | 120 (84.5%) | 100 (82.0%) | 0.7 |
| **Poor appetite** | 498 | 378 (75.9%) | 188 (79.3%) | 104 (73.8%) | 86 (71.7%) | 0.2 |
| **Weight loss** | 503 | 435 (86.5%) | 211 (88.3%) | 121 (85.2%) | 103 (84.4%) | 0.5 |
| **Nausea** | 501 | 265 (52.9%) | 140 (58.8%) | 70 (49.6%) | 55 (45.1%) | 0.031 |
| **Vomiting** | 500 | 141 (28.2%) | 73 (30.8%) | 35 (24.8%) | 33 (27.0%) | 0.4 |
| **Diarrhoea** | 497 | 213 (42.9%) | 117 (49.2%) | 53 (37.6%) | 43 (36.4%) | 0.024 |
| **Liking for salt** | 498 | 274 (55.0%) | 146 (61.6%) | 72 (51.4%) | 56 (46.3%) | 0.013 |
| **Dizziness** | 498 | 234 (47.0%) | 125 (52.7%) | 59 (41.8%) | 50 (41.7%) | 0.049 |
| **Loss of consciousness** | 498 | 7 (1.4%) | 3 (1.3%) | 2 (1.4%) | 2 (1.6%) | >0.9 |
| **Hypoglycaemia** | 499 | 10 (2.0%) | 5 (2.1%) | 2 (1.4%) | 3 (2.5%) | >0.9 |
| **Hypotension** | 499 | 41 (8.2%) | 19 (8.0%) | 17 (12.1%) | 5 (4.1%) | 0.060 |
| **BP (systolic)** | 516 | 111 (102, 125) | 110 (101, 124) | 114 (100, 129) | 113 (107, 122) | 0.2 |
| **BP (diastolic)** | 516 | 70 (60, 79) | 70 (60, 80) | 70 (60, 79) | 70 (60, 78) | 0.8 |
| **Any postural drop in blood pressure** | 500 | 18 (3.6%) | 12 (5.0%) | 6 (4.3%) | 0 (0.0%) | 0.020 |
| **Shock** | 502 | 5 (1.0%) | 3 (1.3%) | 1 (0.7%) | 1 (0.8%) | >0.9 |
| **Anorexia** | 500 | 228 (45.6%) | 120 (50.6%) | 60 (42.6%) | 48 (39.3%) | 0.087 |
| **Loss of axillary and pubic hair, if female** | 502 |  |  |  |  | 0.049 |
| No |  | 179 (35.7%) | 77 (31.8%) | 64 (45.7%) | 38 (31.7%) |  |
| Not applicable |  | 231 (46.0%) | 119 (49.2%) | 51 (36.4%) | 61 (50.8%) |  |
| Yes |  | 92 (18.3%) | 46 (19.0%) | 25 (17.9%) | 21 (17.5%) |  |
| **Increased pigmentation of the skin** | 486 | 241 (49.6%) | 123 (52.3%) | 66 (47.8%) | 52 (46.0%) | 0.5 |
| **Presence of anaemia** | 496 | 286 (57.7%) | 147 (62.6%) | 77 (55.0%) | 62 (51.2%) | 0.093 |
| **Haemoglobin g/dL** | 519 | 8.70 (7.40, 10.30) | 8.50 (7.43, 9.90) | 8.70 (7.25, 10.00) | 9.20 (7.50, 11.00) | 0.020 |
| **Presence of an opportunistic infection** | 518 | 515 (99.4%) | 243 (99.6%) | 141 (99.3%) | 131 (99.2%) | >0.9 |
| **White cell count X109** | 515 | 5.4 (3.6, 8.1) | 5.0 (2.9, 7.3) | 5.7 (4.1, 8.9) | 6.5 (4.4, 9.3) | <0.001 |
| **Lymphocyte count X109** | 120 | 0.8 (0.4, 1.8) | 0.6 (0.3, 1.3) | 1.0 (0.5, 2.0) | 1.2 (0.7, 2.8) | 0.027 |
| **Neutrophils** | 122 | 3 (1, 8) | 2 (1, 6) | 5 (2, 15) | 5 (3, 11) | 0.004 |
| **log10 viral load** | 115 | 4.66 (3.22, 5.34) | 5.04 (4.03, 5.53) | 3.59 (2.70, 5.24) | 3.68 (1.70, 4.97) | 0.001 |
| **Sodium mmol/L** | 495 | 134.0 (130.0, 137.0) | 134.0 (130.0, 137.0) | 134.0 (129.5, 137.0) | 133.0 (130.0, 136.0) | 0.9 |
| **Potassium mmol/L** | 493 | 4.10 (3.60, 4.60) | 4.00 (3.60, 4.52) | 4.10 (3.70, 4.52) | 4.30 (3.60, 4.80) | 0.053 |
| **Random cortisol** | 425 | 462 (358, 572) | 485 (377, 572) | 435 (350, 562) | 442 (349, 565) | 0.2 |
| **Basal cortisol** | 148 | 422 (315, 561) | 438 (315, 568) | 432 (350, 531) | 389 (269, 517) | 0.4 |
| **Stimulated cortisol** | 145 | 697 (548, 826) | 717 (529, 835) | 680 (565, 798) | 699 (568, 805) | >0.9 |
| **ACTH** | 425 | 32 (20, 50) | 34 (22, 51) | 28 (15, 48) | 32 (22, 51) | 0.4 |
| **Tuberculosis** | 522 |  |  |  |  | 0.2 |
| Checked |  | 367 (70.3%) | 182 (74.0%) | 99 (68.8%) | 86 (65.2%) |  |
| Unchecked |  | 155 (29.7%) | 64 (26.0%) | 45 (31.3%) | 46 (34.8%) |  |
| **Cryptococcus neoformans** | 522 |  |  |  |  | >0.9 |
| Checked |  | 1 (0.2%) | 1 (0.4%) | 0 (0.0%) | 0 (0.0%) |  |
| Unchecked |  | 521 (99.8%) | 245 (99.6%) | 144 (100.0%) | 132 (100.0%) |  |
| **Mycobacterium avium-intracellulare** | 522 |  |  |  |  |  |
| Unchecked |  | 522 (100.0%) | 246 (100.0%) | 144 (100.0%) | 132 (100.0%) |  |
| **Toxoplasmosis** | 522 |  |  |  |  |  |
| Unchecked |  | 522 (100.0%) | 246 (100.0%) | 144 (100.0%) | 132 (100.0%) |  |
| **Cytomegalovirus** | 522 |  |  |  |  | 0.5 |
| Checked |  | 1 (0.2%) | 0 (0.0%) | 1 (0.7%) | 0 (0.0%) |  |
| Unchecked |  | 521 (99.8%) | 246 (100.0%) | 143 (99.3%) | 132 (100.0%) |  |
| **Kaposis sarcoma** | 522 |  |  |  |  | >0.9 |
| Checked |  | 1 (0.2%) | 1 (0.4%) | 0 (0.0%) | 0 (0.0%) |  |
| Unchecked |  | 521 (99.8%) | 245 (99.6%) | 144 (100.0%) | 132 (100.0%) |  |
| **Other** | 522 |  |  |  |  | 0.10 |
| Checked |  | 157 (30.1%) | 63 (25.6%) | 47 (32.6%) | 47 (35.6%) |  |
| Unchecked |  | 365 (69.9%) | 183 (74.4%) | 97 (67.4%) | 85 (64.4%) |  |
| 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 = 421 | **yes**, N = 421 | **no**, N = 01 | **p-value**2 |
| --- | --- | --- | --- | --- | --- |
| **Age at enrolment, median (IQR) (years)** | 42 | 36 (31, 43) | 36 (31, 43) | NA (NA, NA) |  |
| **Gender, n(%)** | 42 |  |  |  | >0.9 |
| Females |  | 22 (52.4%) | 22 (52.4%) | 0 (NA%) |  |
| Males |  | 20 (47.6%) | 20 (47.6%) | 0 (NA%) |  |
| **Ethnicity, n(%)** | 42 |  |  |  | >0.9 |
| Black African |  | 37 (88.1%) | 37 (88.1%) | 0 (NA%) |  |
| Other |  | 5 (11.9%) | 5 (11.9%) | 0 (NA%) |  |
| **Duration of current illness, median (IQR) (days)** | 40 | 14 (14, 22) | 14 (14, 22) | NA (NA, NA) |  |
| **Random cortisol** | 42 | 248 (209, 338) | 248 (209, 338) | NA (NA, NA) |  |
| **Basal cortisol** | 35 | 301 (212, 375) | 301 (212, 375) | NA (NA, NA) |  |
| **Stimulated cortisol** | 36 | 435 (353, 536) | 435 (353, 536) | NA (NA, NA) |  |
| **ACTH** | 42 | 24 (13, 46) | 24 (13, 46) | NA (NA, NA) |  |
| **BP (systolic)** | 41 | 116 (100, 128) | 116 (100, 128) | NA (NA, NA) |  |
| **BP (diastolic)** | 41 | 71 (61, 80) | 71 (61, 80) | NA (NA, NA) |  |
| **Heart rate** | 41 | 87 (77, 109) | 87 (77, 109) | NA (NA, NA) |  |
| **Hypotension** | 42 | 3 (7.1%) | 3 (7.1%) | 0 (NA%) | >0.9 |
| **Weakness** | 42 | 36 (85.7%) | 36 (85.7%) | 0 (NA%) | >0.9 |
| **Tiredness** | 42 | 38 (90.5%) | 38 (90.5%) | 0 (NA%) | >0.9 |
| **Poor appetite** | 42 | 36 (85.7%) | 36 (85.7%) | 0 (NA%) | >0.9 |
| **Weight loss** | 42 | 36 (85.7%) | 36 (85.7%) | 0 (NA%) | >0.9 |
| **Increased pigmentation of the skin** | 39 | 18 (46.2%) | 18 (46.2%) | 0 (NA%) | >0.9 |
| **Nausea** | 42 | 24 (57.1%) | 24 (57.1%) | 0 (NA%) | >0.9 |
| **Vomiting** | 42 | 10 (23.8%) | 10 (23.8%) | 0 (NA%) | >0.9 |
| **Liking for salt** | 42 | 26 (61.9%) | 26 (61.9%) | 0 (NA%) | >0.9 |
| **Hypoglycaemia** | 42 | 1 (2.4%) | 1 (2.4%) | 0 (NA%) | >0.9 |
| **Loss of consciousness** | 41 |  |  |  |  |
| No |  | 41 (100.0%) | 41 (100.0%) | 0 (NA%) |  |
| **Diarrhoea** | 42 | 17 (40.5%) | 17 (40.5%) | 0 (NA%) | >0.9 |
| **Dizziness** | 41 | 21 (51.2%) | 21 (51.2%) | 0 (NA%) | >0.9 |
| **Shock** | 42 |  |  |  |  |
| No |  | 42 (100.0%) | 42 (100.0%) | 0 (NA%) |  |
| **Anorexia** | 42 | 16 (38.1%) | 16 (38.1%) | 0 (NA%) | >0.9 |
| **Loss of axillary and pubic hair, if female** | 40 |  |  |  | >0.9 |
| No |  | 17 (42.5%) | 17 (42.5%) | 0 (NA%) |  |
| Not applicable |  | 18 (45.0%) | 18 (45.0%) | 0 (NA%) |  |
| Yes |  | 5 (12.5%) | 5 (12.5%) | 0 (NA%) |  |
| **Any postural drop in blood pressure** | 42 | 3 (7.1%) | 3 (7.1%) | 0 (NA%) | >0.9 |
| **Presence of anaemia** | 40 | 25 (62.5%) | 25 (62.5%) | 0 (NA%) | >0.9 |
| **Presence of an opportunistic infection** | 42 |  |  |  |  |
| Yes |  | 42 (100.0%) | 42 (100.0%) | 0 (NA%) |  |
| **Viral load (log10 Copies/mL)** | 6 |  |  |  | >0.9 |
| 0.792391676137754 |  | 1 (16.7%) | 1 (16.7%) | 0 (NA%) |  |
| 2.66850705945613 |  | 1 (16.7%) | 1 (16.7%) | 0 (NA%) |  |
| 4.54181629404385 |  | 1 (16.7%) | 1 (16.7%) | 0 (NA%) |  |
| 5.04006012250337 |  | 1 (16.7%) | 1 (16.7%) | 0 (NA%) |  |
| 5.32061772796953 |  | 1 (16.7%) | 1 (16.7%) | 0 (NA%) |  |
| 5.62839301750855 |  | 1 (16.7%) | 1 (16.7%) | 0 (NA%) |  |
| **Total CD4 count** | 42 | 44 (17, 61) | 44 (17, 61) | NA (NA, NA) |  |
| **Sodium mmol/L** | 42 | 135.0 (131.0, 137.0) | 135.0 (131.0, 137.0) | NA (NA, NA) |  |
| **Potassium mmol/L** | 42 | 4.00 (3.50, 4.67) | 4.00 (3.50, 4.67) | NA (NA, NA) |  |
| **Haemoglobin g/dL** | 42 | 8.70 (7.75, 10.47) | 8.70 (7.75, 10.47) | NA (NA, NA) |  |
| **White cell count X109** | 42 | 6 (4, 8) | 6 (4, 8) | NA (NA, NA) |  |
| **Lymphocyte count X109** | 10 | 1.1 (0.6, 1.7) | 1.1 (0.6, 1.7) | NA (NA, NA) |  |
| **Neutrophils** | 9 |  |  |  | >0.9 |
| 0.430000007152557 |  | 1 (11.1%) | 1 (11.1%) | 0 (NA%) |  |
| 0.920000016689301 |  | 1 (11.1%) | 1 (11.1%) | 0 (NA%) |  |
| 1.01999998092651 |  | 1 (11.1%) | 1 (11.1%) | 0 (NA%) |  |
| 1.53999996185303 |  | 1 (11.1%) | 1 (11.1%) | 0 (NA%) |  |
| 1.6599999666214 |  | 1 (11.1%) | 1 (11.1%) | 0 (NA%) |  |
| 2.79999995231628 |  | 1 (11.1%) | 1 (11.1%) | 0 (NA%) |  |
| 5.32999992370605 |  | 1 (11.1%) | 1 (11.1%) | 0 (NA%) |  |
| 5.40000009536743 |  | 1 (11.1%) | 1 (11.1%) | 0 (NA%) |  |
| 15.6999998092651 |  | 1 (11.1%) | 1 (11.1%) | 0 (NA%) |  |
| **3 followup\_patientstatus** | 17 |  |  |  | >0.9 |
| Alive |  | 13 (76.5%) | 13 (76.5%) | 0 (NA%) |  |
| Deceased --> EXIT form |  | 4 (23.5%) | 4 (23.5%) | 0 (NA%) |  |
| **6 followup\_patientstatus** | 20 |  |  |  | >0.9 |
| Alive |  | 13 (65.0%) | 13 (65.0%) | 0 (NA%) |  |
| Deceased --> EXIT form |  | 7 (35.0%) | 7 (35.0%) | 0 (NA%) |  |
| **12 followup\_patientstatus** | 23 |  |  |  | >0.9 |
| Alive |  | 16 (69.6%) | 16 (69.6%) | 0 (NA%) |  |
| Deceased --> EXIT form |  | 7 (30.4%) | 7 (30.4%) | 0 (NA%) |  |
| 1Median (IQR); n (%) | | | | | |
| 2Fisher's exact test | | | | | |

# Table 2.2: Cause of moratlity

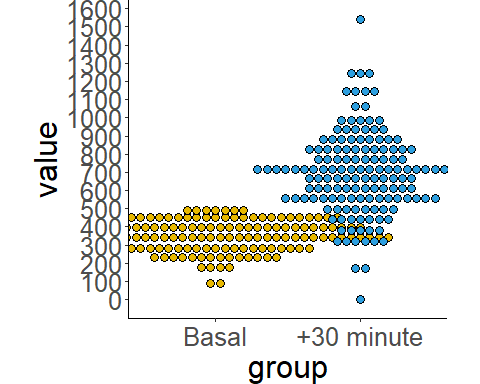
## cross-tabulation

| Variable | **Overall**, N = 421 | **PAI**, N = 301 | **SAI**, N = 121 | **p-value**2 |
| --- | --- | --- | --- | --- |
| **Age at enrolment, median (IQR) (years)** | 36 (31, 43) | 36 (30, 41) | 43 (35, 49) | 0.060 |
| **Gender, n(%)** |  |  |  | 0.8 |
| Females | 22 (52.4%) | 16 (53.3%) | 6 (50.0%) |  |
| Males | 20 (47.6%) | 14 (46.7%) | 6 (50.0%) |  |
| **Ethnicity, n(%)** |  |  |  | >0.9 |
| Black African | 37 (88.1%) | 26 (86.7%) | 11 (91.7%) |  |
| Other | 5 (11.9%) | 4 (13.3%) | 1 (8.3%) |  |
| **Duration of current illness, median (IQR) (days)** | 14 (14, 22) | 14 (12, 19) | 27 (16, 30) | 0.007 |
| **Random cortisol** | 248 (209, 338) | 254 (217, 343) | 237 (186, 262) | 0.2 |
| **Basal cortisol** | 301 (212, 375) | 301 (198, 349) | 350 (228, 412) | 0.3 |
| **Stimulated cortisol** | 435 (353, 536) | 430 (356, 478) | 483 (346, 576) | 0.6 |
| **ACTH** | 24 (13, 46) | 29 (23, 62) | 10 (7, 12) | <0.001 |
| **BP (systolic)** | 116 (100, 128) | 120 (101, 128) | 114 (100, 120) | 0.4 |
| **BP (diastolic)** | 71 (61, 80) | 71 (64, 82) | 70 (59, 73) | 0.14 |
| **Heart rate** | 87 (77, 109) | 94 (77, 113) | 84 (79, 89) | 0.3 |
| **Hypotension** | 3 (7.1%) | 2 (6.7%) | 1 (8.3%) | >0.9 |
| **Weakness** | 36 (85.7%) | 24 (80.0%) | 12 (100.0%) | 0.2 |
| **Tiredness** | 38 (90.5%) | 26 (86.7%) | 12 (100.0%) | 0.3 |
| **Poor appetite** | 36 (85.7%) | 26 (86.7%) | 10 (83.3%) | >0.9 |
| **Weight loss** | 36 (85.7%) | 27 (90.0%) | 9 (75.0%) | 0.3 |
| **Increased pigmentation of the skin** | 18 (46.2%) | 14 (51.9%) | 4 (33.3%) | 0.3 |
| **Nausea** | 24 (57.1%) | 17 (56.7%) | 7 (58.3%) | >0.9 |
| **Vomiting** | 10 (23.8%) | 7 (23.3%) | 3 (25.0%) | >0.9 |
| **Liking for salt** | 26 (61.9%) | 18 (60.0%) | 8 (66.7%) | 0.7 |
| **Hypoglycaemia** | 1 (2.4%) | 1 (3.3%) | 0 (0.0%) | >0.9 |
| **Loss of consciousness** |  |  |  |  |
| No | 41 (100.0%) | 29 (100.0%) | 12 (100.0%) |  |
| **Diarrhoea** | 17 (40.5%) | 12 (40.0%) | 5 (41.7%) | >0.9 |
| **Dizziness** | 21 (51.2%) | 16 (55.2%) | 5 (41.7%) | 0.4 |
| **Shock** |  |  |  |  |
| No | 42 (100.0%) | 30 (100.0%) | 12 (100.0%) |  |
| **Anorexia** | 16 (38.1%) | 13 (43.3%) | 3 (25.0%) | 0.3 |
| **Loss of axillary and pubic hair, if female** |  |  |  | 0.9 |
| No | 17 (42.5%) | 12 (40.0%) | 5 (50.0%) |  |
| Not applicable | 18 (45.0%) | 14 (46.7%) | 4 (40.0%) |  |
| Yes | 5 (12.5%) | 4 (13.3%) | 1 (10.0%) |  |
| **Any postural drop in blood pressure** | 3 (7.1%) | 1 (3.3%) | 2 (16.7%) | 0.2 |
| **Presence of anaemia** | 25 (62.5%) | 19 (65.5%) | 6 (54.5%) | 0.7 |
| **Presence of an opportunistic infection** |  |  |  |  |
| Yes | 42 (100.0%) | 30 (100.0%) | 12 (100.0%) |  |
| **Viral load (log10 Copies/mL)** | 4.79 (3.14, 5.25) | 5.04 (4.54, 5.32) | 2.67 (2.67, 2.67) | 0.7 |
| **CD4 count** | 44 (17, 61) | 45 (17, 63) | 40 (17, 50) | 0.4 |
| **Sodium mmol/L** | 135.0 (131.0, 137.0) | 134.0 (131.0, 136.8) | 136.0 (134.8, 137.5) | 0.2 |
| **Potassium mmol/L** | 4.00 (3.50, 4.67) | 3.95 (3.35, 4.90) | 4.05 (3.57, 4.20) | 0.8 |
| **Haemoglobin g/dL** | 8.70 (7.75, 10.47) | 8.75 (7.75, 10.28) | 8.65 (7.65, 10.95) | 0.8 |
| **White cell count X109** | 6 (4, 8) | 5 (3, 9) | 6 (4, 7) | 0.7 |
| **Lymphocyte count X109** | 1.1 (0.6, 1.7) | 1.6 (0.8, 2.0) | 0.8 (0.5, 1.1) | 0.11 |
| **Neutrophils** | 1.7 (1.0, 5.3) | 5.3 (0.9, 5.4) | 1.6 (1.4, 1.9) | 0.7 |
| **3 followup\_patientstatus** |  |  |  | 0.2 |
| Alive | 13 (76.5%) | 7 (63.6%) | 6 (100.0%) |  |
| Deceased --> EXIT form | 4 (23.5%) | 4 (36.4%) | 0 (0.0%) |  |
| **6 followup\_patientstatus** |  |  |  | 0.4 |
| Alive | 13 (65.0%) | 8 (57.1%) | 5 (83.3%) |  |
| Deceased --> EXIT form | 7 (35.0%) | 6 (42.9%) | 1 (16.7%) |  |
| **12 followup\_patientstatus** |  |  |  | 0.7 |
| Alive | 16 (69.6%) | 9 (64.3%) | 7 (77.8%) |  |
| Deceased --> EXIT form | 7 (30.4%) | 5 (35.7%) | 2 (22.2%) |  |
| **Tuberculosis** |  |  |  | 0.7 |
| Checked | 25 (59.5%) | 17 (56.7%) | 8 (66.7%) |  |
| Unchecked | 17 (40.5%) | 13 (43.3%) | 4 (33.3%) |  |
| **Cryptococcus neoformans** |  |  |  | >0.9 |
| Checked | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) |  |
| Unchecked | 42 (100.0%) | 30 (100.0%) | 12 (100.0%) |  |
| **Toxoplasmosis** |  |  |  |  |
| Unchecked | 42 (100.0%) | 30 (100.0%) | 12 (100.0%) |  |
| **Mycobacterium avium-intracellulare** |  |  |  |  |
| Unchecked | 42 (100.0%) | 30 (100.0%) | 12 (100.0%) |  |
| **Kaposis sarcoma** |  |  |  | >0.9 |
| Checked | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) |  |
| Unchecked | 42 (100.0%) | 30 (100.0%) | 12 (100.0%) |  |
| **Cytomegalovirus** |  |  |  | >0.9 |
| Checked | 1 (2.4%) | 1 (3.3%) | 0 (0.0%) |  |
| Unchecked | 41 (97.6%) | 29 (96.7%) | 12 (100.0%) |  |
| **Other** |  |  |  | >0.9 |
| Checked | 18 (42.9%) | 13 (43.3%) | 5 (41.7%) |  |
| Unchecked | 24 (57.1%) | 17 (56.7%) | 7 (58.3%) |  |
| 1Median (IQR); n (%) | | | | |
| 2Wilcoxon rank sum test; Pearson's Chi-squared test; Fisher's exact test; Wilcoxon rank sum exact test | | | | |

| Variable | **Overall**, N = 5281 | **AI**, N = 421 | **No-AI**, N = 4861 | **p-value**2 |
| --- | --- | --- | --- | --- |
| **Age at enrolment, median (IQR) (years)** | 36 (31, 43) | 36 (31, 43) | 36 (31, 43) | 0.8 |
| **Gender, n(%)** |  |  |  | 0.9 |
| Females | 269 (51.2%) | 22 (52.4%) | 247 (51.1%) |  |
| Males | 256 (48.8%) | 20 (47.6%) | 236 (48.9%) |  |
| **Ethnicity, n(%)** |  |  |  | 0.2 |
| Black African | 421 (80.0%) | 37 (88.1%) | 384 (79.3%) |  |
| Other | 105 (20.0%) | 5 (11.9%) | 100 (20.7%) |  |
| **Duration of current illness, median (IQR) (days)** | 14 (12, 21) | 14 (14, 22) | 14 (11, 21) | 0.5 |
| **Random cortisol** | 463 (358, 572) | 248 (209, 338) | 485 (388, 581) | <0.001 |
| **Basal cortisol** | 422 (315, 561) | 301 (212, 375) | 476 (381, 602) | <0.001 |
| **Stimulated cortisol** | 697 (548, 826) | 435 (353, 536) | 734 (644, 864) | <0.001 |
| **ACTH** | 32 (20, 50) | 24 (13, 46) | 33 (21, 51) | 0.10 |
| **BP (systolic)** | 112 (102, 125) | 116 (100, 128) | 111 (102, 125) | 0.7 |
| **BP (diastolic)** | 70 (60, 79) | 71 (61, 80) | 70 (60, 79) | 0.090 |
| **Heart rate** | 90 (78, 109) | 87 (77, 109) | 90 (79, 109) | 0.6 |
| **Hypotension** | 41 (8.2%) | 3 (7.1%) | 38 (8.3%) | >0.9 |
| **Weakness** | 424 (84.3%) | 36 (85.7%) | 388 (84.2%) | 0.8 |
| **Tiredness** | 427 (84.9%) | 38 (90.5%) | 389 (84.4%) | 0.3 |
| **Poor appetite** | 379 (75.8%) | 36 (85.7%) | 343 (74.9%) | 0.12 |
| **Weight loss** | 435 (86.1%) | 36 (85.7%) | 399 (86.2%) | >0.9 |
| **Increased pigmentation of the skin** | 241 (49.4%) | 18 (46.2%) | 223 (49.7%) | 0.7 |
| **Nausea** | 265 (52.7%) | 24 (57.1%) | 241 (52.3%) | 0.5 |
| **Vomiting** | 141 (28.1%) | 10 (23.8%) | 131 (28.5%) | 0.5 |
| **Liking for salt** | 274 (54.8%) | 26 (61.9%) | 248 (54.1%) | 0.3 |
| **Hypoglycaemia** | 11 (2.2%) | 1 (2.4%) | 10 (2.2%) | >0.9 |
| **Loss of consciousness** | 7 (1.4%) | 0 (0.0%) | 7 (1.5%) | >0.9 |
| **Diarrhoea** | 213 (42.7%) | 17 (40.5%) | 196 (42.9%) | 0.8 |
| **Dizziness** | 235 (47.0%) | 21 (51.2%) | 214 (46.6%) | 0.6 |
| **Shock** | 5 (1.0%) | 0 (0.0%) | 5 (1.1%) | >0.9 |
| **Anorexia** | 228 (45.4%) | 16 (38.1%) | 212 (46.1%) | 0.3 |
| **Loss of axillary and pubic hair, if female** |  |  |  | 0.5 |
| No | 179 (35.4%) | 17 (42.5%) | 162 (34.8%) |  |
| Not applicable | 234 (46.3%) | 18 (45.0%) | 216 (46.5%) |  |
| Yes | 92 (18.2%) | 5 (12.5%) | 87 (18.7%) |  |
| **Any postural drop in blood pressure** | 18 (3.6%) | 3 (7.1%) | 15 (3.3%) | 0.2 |
| **Presence of anaemia** | 286 (57.4%) | 25 (62.5%) | 261 (57.0%) | 0.5 |
| **Presence of an opportunistic infection** | 521 (99.4%) | 42 (100.0%) | 479 (99.4%) | >0.9 |
| **Viral load (log10 Copies/mL)** | 4.66 (3.22, 5.34) | 4.79 (3.14, 5.25) | 4.66 (3.27, 5.35) | 0.8 |
| **CD4 count** | 33 (15, 61) | 44 (17, 61) | 32 (14, 61) | 0.5 |
| **Sodium mmol/L** | 134.0 (130.0, 137.0) | 135.0 (131.0, 137.0) | 134.0 (130.0, 137.0) | 0.2 |
| **Potassium mmol/L** | 4.10 (3.60, 4.60) | 4.00 (3.50, 4.67) | 4.10 (3.62, 4.60) | 0.4 |
| **Haemoglobin g/dL** | 8.70 (7.40, 10.37) | 8.70 (7.75, 10.47) | 8.70 (7.40, 10.30) | 0.5 |
| **White cell count X109** | 5.4 (3.6, 8.1) | 5.5 (3.6, 8.2) | 5.4 (3.7, 8.1) | 0.7 |
| **Lymphocyte count X109** | 0.8 (0.4, 1.8) | 1.1 (0.6, 1.7) | 0.8 (0.4, 1.8) | 0.4 |
| **Neutrophils** | 3 (1, 8) | 2 (1, 5) | 4 (2, 9) | 0.2 |
| **3 followup\_patientstatus** |  |  |  | 0.5 |
| Alive | 133 (82.1%) | 13 (76.5%) | 120 (82.8%) |  |
| Deceased --> EXIT form | 29 (17.9%) | 4 (23.5%) | 25 (17.2%) |  |
| **6 followup\_patientstatus** |  |  |  | 0.15 |
| Alive | 142 (78.5%) | 13 (65.0%) | 129 (80.1%) |  |
| Deceased --> EXIT form | 39 (21.5%) | 7 (35.0%) | 32 (19.9%) |  |
| **12 followup\_patientstatus** |  |  |  | 0.3 |
| Alive | 179 (78.5%) | 16 (69.6%) | 163 (79.5%) |  |
| Deceased --> EXIT form | 49 (21.5%) | 7 (30.4%) | 42 (20.5%) |  |
| **Tuberculosis** |  |  |  | 0.13 |
| Checked | 369 (69.9%) | 25 (59.5%) | 344 (70.8%) |  |
| Unchecked | 159 (30.1%) | 17 (40.5%) | 142 (29.2%) |  |
| **Cryptococcus neoformans** |  |  |  | >0.9 |
| Checked | 1 (0.2%) | 0 (0.0%) | 1 (0.2%) |  |
| Unchecked | 527 (99.8%) | 42 (100.0%) | 485 (99.8%) |  |
| **Toxoplasmosis** |  |  |  |  |
| Unchecked | 528 (100.0%) | 42 (100.0%) | 486 (100.0%) |  |
| **Mycobacterium avium-intracellulare** |  |  |  |  |
| Unchecked | 528 (100.0%) | 42 (100.0%) | 486 (100.0%) |  |
| **Kaposis sarcoma** |  |  |  | >0.9 |
| Checked | 1 (0.2%) | 0 (0.0%) | 1 (0.2%) |  |
| Unchecked | 527 (99.8%) | 42 (100.0%) | 485 (99.8%) |  |
| **Cytomegalovirus** |  |  |  | 0.080 |
| Checked | 1 (0.2%) | 1 (2.4%) | 0 (0.0%) |  |
| Unchecked | 527 (99.8%) | 41 (97.6%) | 486 (100.0%) |  |
| **Other** |  |  |  | 0.061 |
| Checked | 159 (30.1%) | 18 (42.9%) | 141 (29.0%) |  |
| Unchecked | 369 (69.9%) | 24 (57.1%) | 345 (71.0%) |  |
| 1Median (IQR); n (%) | | | | |
| 2Wilcoxon rank sum test; Pearson's Chi-squared test; Fisher's exact test | | | | |

## extra table

| Variable | **N** | **yes**, N = 231 | **no**, N = 621 | **p-value**2 |
| --- | --- | --- | --- | --- |
| **Loss of axillary and pubic hair, if female** | 85 | 5 (21.7%) | 25 (40.3%) | 0.11 |
| 1n (%) | | | | |
| 2Pearson's Chi-squared test | | | | |

png 2

# Table 3: Bivariate table

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

| Variable | **N** | **yes**, N = 9 | **no**, N = 18 | **p-value** |
| --- | --- | --- | --- | --- |
| **Age at enrolment median (IQR) (years)** | 27 | 40 (31, 48) | 37 (31, 42) | 0.6 |
| **Gender, n(%)** | 27 |  |  | 0.4 |
| Females |  | 4 (44.4%) | 11 (61.1%) |  |
| Males |  | 5 (55.6%) | 7 (38.9%) |  |
| **Ethnicity, n(%)** | 27 |  |  | >0.9 |
| 1 |  | 7 (77.8%) | 15 (83.3%) |  |
| 2 |  | 2 (22.2%) | 3 (16.7%) |  |
| **Duration of current illness, median (IQR) (days)** | 26 | 266 (9, 4,568) | 669 (117, 1,359) | 0.9 |
| **Random cortisol** | 27 | 255 (235, 332) | 382 (341, 447) | 0.002 |
| **Basal cortisol** | 26 | 328 (283, 381) | 538 (480, 636) | <0.001 |
| **Stimulated cortisol** | 26 | 417 (344, 471) | 827 (722, 909) | <0.001 |
| **ACTH** | 27 | 23 (21, 48) | 35 (18, 49) | 0.9 |
| **BP (systolic)** | 27 | 124 (113, 128) | 110 (101, 119) | 0.053 |
| **BP (diastolic)** | 27 | 74 (70, 79) | 71 (63, 79) | 0.7 |
| **Heart rate** | 27 | 82 (72, 92) | 94 (80, 117) | 0.2 |
| **Hypotension** | 27 | 0 (0.0%) | 2 (11.1%) | 0.5 |
| **Weakness** | 27 | 7 (77.8%) | 17 (94.4%) | 0.3 |
| **Tiredness** | 26 | 9 (100.0%) | 16 (94.1%) | >0.9 |
| **Poor appetite** | 27 | 9 (100.0%) | 17 (94.4%) | >0.9 |
| **Weight loss** | 27 | 7 (77.8%) | 17 (94.4%) | 0.3 |
| **Increased pigmentation of the skin** | 25 | 4 (50.0%) | 13 (76.5%) | 0.4 |
| **Nausea** | 27 | 7 (77.8%) | 13 (72.2%) | >0.9 |
| **Vomiting** | 27 | 2 (22.2%) | 5 (27.8%) | >0.9 |
| **Liking for salt** | 27 | 6 (66.7%) | 12 (66.7%) | >0.9 |
| **Hypoglycaemia** | 27 |  |  |  |
| No |  | 9 (100.0%) | 18 (100.0%) |  |
| **Loss of consciousness** | 27 | 0 (0.0%) | 1 (5.6%) | >0.9 |
| **Diarrhoea** | 27 | 3 (33.3%) | 11 (61.1%) | 0.2 |
| **Dizziness** | 26 | 5 (55.6%) | 13 (76.5%) | 0.4 |
| **Shock** | 27 |  |  |  |
| No |  | 9 (100.0%) | 18 (100.0%) |  |
| **Anorexia** | 27 | 4 (44.4%) | 13 (72.2%) | 0.2 |
| **Loss of axillary and pubic hair, if female** | 27 |  |  | 0.5 |
| No |  | 2 (22.2%) | 4 (22.2%) |  |
| Not applicable |  | 5 (55.6%) | 6 (33.3%) |  |
| Yes |  | 2 (22.2%) | 8 (44.4%) |  |
| **Any postural drop in blood pressure** | 27 |  |  |  |
| No |  | 9 (100.0%) | 18 (100.0%) |  |
| **Presence of anaemia** | 27 | 5 (55.6%) | 12 (66.7%) | 0.7 |
| **Presence of an opportunistic infection** | 27 |  |  |  |
| Yes |  | 9 (100.0%) | 18 (100.0%) |  |
| **Tuberculosis** | 27 |  |  | 0.2 |
| Checked |  | 5 (55.6%) | 15 (83.3%) |  |
| Unchecked |  | 4 (44.4%) | 3 (16.7%) |  |
| **Cryptococcus neoformans** | 27 |  |  | >0.9 |
| Checked |  | 0 (0.0%) | 0 (0.0%) |  |
| Unchecked |  | 9 (100.0%) | 18 (100.0%) |  |
| **Toxoplasmosis** | 27 |  |  |  |
| Unchecked |  | 9 (100.0%) | 18 (100.0%) |  |
| **Mycobacterium avium-intracellulare** | 27 |  |  |  |
| Unchecked |  | 9 (100.0%) | 18 (100.0%) |  |
| **Kaposis sarcoma** | 27 |  |  | >0.9 |
| Checked |  | 0 (0.0%) | 0 (0.0%) |  |
| Unchecked |  | 9 (100.0%) | 18 (100.0%) |  |
| **Cytomegalovirus** | 27 |  |  | >0.9 |
| Checked |  | 0 (0.0%) | 0 (0.0%) |  |
| Unchecked |  | 9 (100.0%) | 18 (100.0%) |  |
| **Other** | 27 |  |  | 0.4 |
| Checked |  | 4 (44.4%) | 5 (27.8%) |  |
| Unchecked |  | 5 (55.6%) | 13 (72.2%) |  |
| **Viral load (log10 Copies/mL)** | 6 |  |  | >0.9 |
| 3.28239550474253 |  | 0 (0.0%) | 1 (25.0%) |  |
| 5.09612409790324 |  | 0 (0.0%) | 1 (25.0%) |  |
| 5.32061772796953 |  | 1 (50.0%) | 0 (0.0%) |  |
| 5.48341468588196 |  | 0 (0.0%) | 1 (25.0%) |  |
| 5.62839301750855 |  | 1 (50.0%) | 0 (0.0%) |  |
| 5.73017157394209 |  | 0 (0.0%) | 1 (25.0%) |  |
| **Total CD4 count** | 27 | 44 (17, 61) | 26 (16, 36) | 0.2 |
| **Sodium mmol/L** | 25 | 134.0 (131.0, 139.0) | 129.5 (126.0, 135.0) | 0.065 |
| **Potassium mmol/L** | 26 | 3.90 (3.60, 4.60) | 3.90 (3.60, 4.60) | 0.8 |
| **Haemoglobin g/dL** | 27 | 8.80 (8.10, 10.90) | 8.40 (7.40, 10.67) | 0.6 |
| **White cell count X109** | 27 | 7 (6, 11) | 4 (3, 7) | 0.076 |
| **Lymphocyte count X109** | 7 |  |  | >0.9 |
| 0.100000001490116 |  | 0 (NA%) | 1 (14.3%) |  |
| 0.400000005960464 |  | 0 (NA%) | 1 (14.3%) |  |
| 0.449999988079071 |  | 0 (NA%) | 1 (14.3%) |  |
| 0.560000002384186 |  | 0 (NA%) | 1 (14.3%) |  |
| 0.920000016689301 |  | 0 (NA%) | 1 (14.3%) |  |
| 1.30999994277954 |  | 0 (NA%) | 1 (14.3%) |  |
| 6.19999980926514 |  | 0 (NA%) | 1 (14.3%) |  |

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

| Variable | **N** | **yes**, N = 9 | **no**, N = 34 | **p-value** |
| --- | --- | --- | --- | --- |
| **Age at enrolment median (IQR) (years)** | 43 | 40 (31, 48) | 36 (32, 42) | 0.7 |
| **Gender, n(%)** | 43 |  |  | 0.7 |
| Females |  | 4 (44.4%) | 18 (52.9%) |  |
| Males |  | 5 (55.6%) | 16 (47.1%) |  |
| **Ethnicity, n(%)** | 43 |  |  | 0.3 |
| 1 |  | 7 (77.8%) | 31 (91.2%) |  |
| 2 |  | 2 (22.2%) | 3 (8.8%) |  |
| **Duration of current illness, median (IQR) (days)** | 39 | 266 (9, 4,568) | 1,100 (286, 3,382) | 0.6 |
| **Random cortisol** | 43 | 255 (235, 332) | 239 (207, 343) | 0.6 |
| **Basal cortisol** | 35 | 328 (283, 381) | 300 (197, 360) | 0.5 |
| **Stimulated cortisol** | 36 | 417 (344, 471) | 453 (359, 536) | 0.7 |
| **ACTH** | 42 | 23 (21, 48) | 25 (13, 39) | 0.9 |
| **BP (systolic)** | 42 | 124 (113, 128) | 115 (100, 125) | 0.2 |
| **BP (diastolic)** | 42 | 74 (70, 79) | 71 (60, 80) | 0.7 |
| **Heart rate** | 42 | 82 (72, 92) | 90 (77, 114) | 0.2 |
| **Hypotension** | 43 | 0 (0.0%) | 3 (8.8%) | >0.9 |
| **Weakness** | 43 | 7 (77.8%) | 30 (88.2%) | 0.6 |
| **Tiredness** | 43 | 9 (100.0%) | 30 (88.2%) | 0.6 |
| **Poor appetite** | 43 | 9 (100.0%) | 27 (79.4%) | 0.3 |
| **Weight loss** | 43 | 7 (77.8%) | 30 (88.2%) | 0.6 |
| **Increased pigmentation of the skin** | 40 | 4 (50.0%) | 14 (43.8%) | >0.9 |
| **Nausea** | 43 | 7 (77.8%) | 18 (52.9%) | 0.3 |
| **Vomiting** | 43 | 2 (22.2%) | 9 (26.5%) | >0.9 |
| **Liking for salt** | 43 | 6 (66.7%) | 20 (58.8%) | >0.9 |
| **Hypoglycaemia** | 43 | 0 (0.0%) | 1 (2.9%) | >0.9 |
| **Loss of consciousness** | 42 |  |  |  |
| No |  | 9 (100.0%) | 33 (100.0%) |  |
| **Diarrhoea** | 43 | 3 (33.3%) | 14 (41.2%) | >0.9 |
| **Dizziness** | 42 | 5 (55.6%) | 16 (48.5%) | >0.9 |
| **Shock** | 43 |  |  |  |
| No |  | 9 (100.0%) | 34 (100.0%) |  |
| **Anorexia** | 43 | 4 (44.4%) | 13 (38.2%) | >0.9 |
| **Loss of axillary and pubic hair, if female** | 41 |  |  | 0.2 |
| No |  | 2 (22.2%) | 16 (50.0%) |  |
| Not applicable |  | 5 (55.6%) | 13 (40.6%) |  |
| Yes |  | 2 (22.2%) | 3 (9.4%) |  |
| **Any postural drop in blood pressure** | 43 | 0 (0.0%) | 3 (8.8%) | >0.9 |
| **Presence of anaemia** | 41 | 5 (55.6%) | 21 (65.6%) | 0.7 |
| **Presence of an opportunistic infection** | 43 |  |  |  |
| Yes |  | 9 (100.0%) | 34 (100.0%) |  |
| **Tuberculosis** | 43 |  |  | >0.9 |
| Checked |  | 5 (55.6%) | 21 (61.8%) |  |
| Unchecked |  | 4 (44.4%) | 13 (38.2%) |  |
| **Cryptococcus neoformans** | 43 |  |  | >0.9 |
| Checked |  | 0 (0.0%) | 0 (0.0%) |  |
| Unchecked |  | 9 (100.0%) | 34 (100.0%) |  |
| **Toxoplasmosis** | 43 |  |  |  |
| Unchecked |  | 9 (100.0%) | 34 (100.0%) |  |
| **Mycobacterium avium-intracellulare** | 43 |  |  |  |
| Unchecked |  | 9 (100.0%) | 34 (100.0%) |  |
| **Kaposis sarcoma** | 43 |  |  | >0.9 |
| Checked |  | 0 (0.0%) | 0 (0.0%) |  |
| Unchecked |  | 9 (100.0%) | 34 (100.0%) |  |
| **Cytomegalovirus** | 43 |  |  | >0.9 |
| Checked |  | 0 (0.0%) | 1 (2.9%) |  |
| Unchecked |  | 9 (100.0%) | 33 (97.1%) |  |
| **Other** | 43 |  |  | >0.9 |
| Checked |  | 4 (44.4%) | 15 (44.1%) |  |
| Unchecked |  | 5 (55.6%) | 19 (55.9%) |  |
| **Viral load (log10 Copies/mL)** | 6 |  |  | >0.9 |
| 0.792391676137754 |  | 0 (0.0%) | 1 (25.0%) |  |
| 2.66850705945613 |  | 0 (0.0%) | 1 (25.0%) |  |
| 4.54181629404385 |  | 0 (0.0%) | 1 (25.0%) |  |
| 5.04006012250337 |  | 0 (0.0%) | 1 (25.0%) |  |
| 5.32061772796953 |  | 1 (50.0%) | 0 (0.0%) |  |
| 5.62839301750855 |  | 1 (50.0%) | 0 (0.0%) |  |
| **Total CD4 count** | 43 | 44 (17, 61) | 38 (17, 59) | 0.6 |
| **Sodium mmol/L** | 43 | 134.0 (131.0, 139.0) | 135.0 (131.0, 136.0) | 0.8 |
| **Potassium mmol/L** | 43 | 3.90 (3.60, 4.60) | 4.00 (3.50, 4.78) | 0.8 |
| **Haemoglobin g/dL** | 43 | 8.80 (8.10, 10.90) | 8.65 (7.75, 10.37) | 0.7 |
| **White cell count X109** | 43 | 7 (6, 11) | 5 (3, 8) | 0.2 |
| **Lymphocyte count X109** | 10 | NA (NA, NA) | 1.1 (0.6, 1.7) |  |
| **Addisons disease** | 43 | 9 (100.0%) | 34 (100.0%) | >0.9 |

| **Characteristic** | **N** | **HR**1 | **95% CI**1 | **p-value** |
| --- | --- | --- | --- | --- |
| Age\_at\_enrolment | 527 | 1.02 | 0.99, 1.04 | 0.2 |
| gender | 525 |  |  |  |
| Females |  | — | — |  |
| Males |  | 0.86 | 0.53, 1.41 | 0.6 |
| Ethnicity | 526 |  |  |  |
| 1 |  | — | — |  |
| 2 |  | 0.73 | 0.37, 1.43 | 0.4 |
| HIV\_duration | 428 | 1.00 | 1.00, 1.00 | 0.3 |
| Random\_cortisol | 426 | 1.00 | 1.00, 1.00 | 0.5 |
| Basal\_cortisol | 148 | 1.00 | 1.00, 1.00 | 0.2 |
| Stimulated\_cortisol | 145 | 1.00 | 1.00, 1.00 | >0.9 |
| ACTH | 426 | 1.01 | 1.00, 1.01 | <0.001 |
| BP\_systolic | 519 | 0.99 | 0.98, 1.01 | 0.3 |
| BP\_diastolic | 519 | 1.01 | 1.00, 1.03 | 0.12 |
| Heart\_rate | 518 | 1.00 | 0.99, 1.02 | 0.4 |
| Hypotension | 502 |  |  |  |
| No |  | — | — |  |
| Yes |  | 1.46 | 0.66, 3.20 | 0.3 |
| Weakness | 503 |  |  |  |
| No |  | — | — |  |
| Yes |  | 1.77 | 0.76, 4.11 | 0.2 |
| Tiredness | 503 |  |  |  |
| No |  | — | — |  |
| Yes |  | 2.58 | 0.93, 7.11 | 0.067 |
| Poor\_appetite | 500 |  |  |  |
| No |  | — | — |  |
| Yes |  | 2.62 | 1.19, 5.75 | 0.017 |
| Weight\_loss | 505 |  |  |  |
| No |  | — | — |  |
| Yes |  | 1.08 | 0.51, 2.27 | 0.8 |
| Increased\_pigmentation\_of\_the\_skin | 488 |  |  |  |
| No |  | — | — |  |
| Yes |  | 1.68 | 1.00, 2.83 | 0.051 |
| Nausea | 503 |  |  |  |
| No |  | — | — |  |
| Yes |  | 1.82 | 1.07, 3.07 | 0.026 |
| Vomiting | 502 |  |  |  |
| No |  | — | — |  |
| Yes |  | 0.98 | 0.56, 1.71 | >0.9 |
| Liking\_for\_salt | 500 |  |  |  |
| No |  | — | — |  |
| Yes |  | 1.80 | 1.06, 3.06 | 0.031 |
| Hypoglycaemia | 501 |  |  |  |
| No |  | — | — |  |
| Yes |  | 1.47 | 0.36, 6.01 | 0.6 |
| Loss\_of\_consciousness | 500 |  |  |  |
| No |  | — | — |  |
| Yes |  | 2.54 | 0.62, 10.4 | 0.2 |
| Diarrhoea | 499 |  |  |  |
| No |  | — | — |  |
| Yes |  | 1.56 | 0.95, 2.57 | 0.081 |
| Dizziness | 500 |  |  |  |
| No |  | — | — |  |
| Yes |  | 1.67 | 1.01, 2.79 | 0.048 |
| Shock | 504 |  |  |  |
| No |  | — | — |  |
| Yes |  | 3.79 | 0.92, 15.5 | 0.064 |
| Anorexia | 502 |  |  |  |
| No |  | — | — |  |
| Yes |  | 1.70 | 1.03, 2.82 | 0.038 |
| Loss\_of\_axillary\_and\_pubic\_hair | 505 |  |  |  |
| No |  | — | — |  |
| Not applicable |  | 1.33 | 0.71, 2.51 | 0.4 |
| Yes |  | 2.75 | 1.41, 5.38 | 0.003 |
| Any\_postural\_drop\_in\_blood\_pressure | 502 |  |  |  |
| No |  | — | — |  |
| Yes |  | 1.97 | 0.71, 5.42 | 0.2 |
| Presence\_of\_anaemia | 498 |  |  |  |
| No |  | — | — |  |
| Yes |  | 1.27 | 0.76, 2.12 | 0.4 |
| Tuberculosis | 528 |  |  |  |
| Checked |  | — | — |  |
| Unchecked |  | 1.06 | 0.62, 1.80 | 0.8 |
| Kaposis\_sarcoma | 528 |  |  |  |
| Checked |  | — | — |  |
| Unchecked |  | 1,206,457 | 0.00, Inf | >0.9 |
| Cytomegalovirus | 528 |  |  |  |
| Checked |  | — | — |  |
| Unchecked |  | 1,206,457 | 0.00, Inf | >0.9 |
| Other | 528 |  |  |  |
| Checked |  | — | — |  |
| Unchecked |  | 0.95 | 0.56, 1.60 | 0.8 |
| Viral\_load | 115 | 1.65 | 1.08, 2.50 | 0.019 |
| CD4\_count | 522 | 0.99 | 0.98, 1.00 | 0.2 |
| Sodium | 498 | 1.00 | 0.98, 1.02 | >0.9 |
| Potassium | 496 | 0.98 | 0.94, 1.04 | 0.5 |
| Haemoglobin | 522 | 0.98 | 0.88, 1.10 | 0.8 |
| White\_cell\_count | 518 | 1.00 | 1.00, 1.00 | >0.9 |
| Lymphocyte\_count | 120 | 0.92 | 0.81, 1.06 | 0.3 |
| Addisons\_disease | 152 |  |  |  |
| no |  | — | — |  |
| yes |  | 1.34 | 0.60, 2.98 | 0.5 |
| 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)

iter imp variable 1 1 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Addisons\_disease Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 1 2 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Addisons\_disease Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 1 3 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Addisons\_disease Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 1 4 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Addisons\_disease Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 1 5 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Addisons\_disease Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 2 1 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Addisons\_disease Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 2 2 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Addisons\_disease Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 2 3 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Addisons\_disease Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 2 4 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Addisons\_disease Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 2 5 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Addisons\_disease Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 3 1 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Addisons\_disease Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 3 2 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Addisons\_disease Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 3 3 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Addisons\_disease Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 3 4 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Addisons\_disease Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 3 5 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Addisons\_disease Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 4 1 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Addisons\_disease Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 4 2 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Addisons\_disease Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 4 3 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Addisons\_disease Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 4 4 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Addisons\_disease Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 4 5 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Addisons\_disease Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 5 1 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Addisons\_disease Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 5 2 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Addisons\_disease Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 5 3 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Addisons\_disease Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 5 4 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Addisons\_disease Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 5 5 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Addisons\_disease Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 6 1 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Addisons\_disease Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 6 2 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Addisons\_disease Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 6 3 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Addisons\_disease Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 6 4 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Addisons\_disease Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 6 5 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Addisons\_disease Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 7 1 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Addisons\_disease Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 7 2 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Addisons\_disease Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 7 3 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Addisons\_disease Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 7 4 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Addisons\_disease Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 7 5 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Addisons\_disease Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 8 1 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Addisons\_disease Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 8 2 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Addisons\_disease Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 8 3 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Addisons\_disease Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 8 4 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Addisons\_disease Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 8 5 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Addisons\_disease Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 9 1 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Addisons\_disease Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 9 2 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Addisons\_disease Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 9 3 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Addisons\_disease Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 9 4 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Addisons\_disease Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 9 5 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Addisons\_disease Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 10 1 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Addisons\_disease Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 10 2 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Addisons\_disease Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 10 3 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Addisons\_disease Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 10 4 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Addisons\_disease Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 10 5 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Addisons\_disease Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 11 1 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Addisons\_disease Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 11 2 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Addisons\_disease Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 11 3 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Addisons\_disease Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 11 4 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Addisons\_disease Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 11 5 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Addisons\_disease Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 12 1 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Addisons\_disease Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 12 2 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Addisons\_disease Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 12 3 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Addisons\_disease Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 12 4 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Addisons\_disease Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 12 5 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Addisons\_disease Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 13 1 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Addisons\_disease Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 13 2 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Addisons\_disease Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 13 3 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Addisons\_disease Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 13 4 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Addisons\_disease Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 13 5 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Addisons\_disease Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 14 1 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Addisons\_disease Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 14 2 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Addisons\_disease Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 14 3 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Addisons\_disease Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 14 4 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Addisons\_disease Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 14 5 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Addisons\_disease Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 15 1 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Addisons\_disease Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 15 2 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Addisons\_disease Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 15 3 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Addisons\_disease Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 15 4 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Addisons\_disease Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 15 5 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Addisons\_disease Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 16 1 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count 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Ethnicity Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Addisons\_disease Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 20 4 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Addisons\_disease Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 20 5 Age\_at\_enrolment gender Ethnicity Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Addisons\_disease Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic Call: survival::coxph(formula = Surv(time = ttdeath, event = mortality) ~ Addisons\_disease + Viral\_load + Lymphocyte\_count + Potassium + gender, data = completeData)

n= 528, number of events= 64

coef exp(coef) se(coef) z Pr(>|z|)

Addisons\_disease 0.2988356 1.3482879 0.3971643 0.752 0.4518  
Viral\_load 0.2044642 1.2268675 0.1226837 1.667 0.0956 . Lymphocyte\_count -0.0003939 0.9996062 0.0034072 -0.116 0.9080  
Potassium -0.0161648 0.9839652 0.0271579 -0.595 0.5517  
gender -0.1235681 0.8837615 0.2531851 -0.488 0.6255  
— Signif. codes: 0 ‘***’ 0.001 ’****’ 0.01 ’*’ 0.05 ‘.’ 0.1 ’ ’ 1

exp(coef) exp(-coef) lower .100 upper .100

Addisons\_disease 1.3483 0.7417 0 Inf Viral\_load 1.2269 0.8151 0 Inf Lymphocyte\_count 0.9996 1.0004 0 Inf Potassium 0.9840 1.0163 0 Inf gender 0.8838 1.1315 0 Inf

Concordance= 0.566 (se = 0.036 ) Likelihood ratio test= 4.42 on 5 df, p=0.5 Wald test = 4.12 on 5 df, p=0.5 Score (logrank) test = 4.15 on 5 df, p=0.5

png 2

# Table 5 univariate analysis for addisson’s disease

| **Characteristic** | **N** | **OR**1 | **95% CI**1 | **p-value** |
| --- | --- | --- | --- | --- |
| Age\_at\_enrolment | 527 | 1.00 | 0.96, 1.03 | 0.9 |
| gender | 525 | 1.05 | 0.56, 1.99 | 0.9 |
| Ethnicity | 526 | 0.52 | 0.18, 1.24 | 0.2 |
| Duration\_of\_current\_illness | 494 | 0.98 | 0.95, 1.00 | 0.078 |
| Random\_cortisol | 426 | 1.22 | 1.16, 1.30 | <0.001 |
| Basal cortisol | 148 | 1.10 | 1.06, 1.15 | <0.001 |
| Stimulated cortisol | 145 | 1.21 | 1.14, 1.32 | <0.001 |
| ACTH | 426 | 0.98 | 0.92, 1.07 | 0.6 |
| BP (systolic) | 519 | 1.00 | 0.98, 1.02 | 0.9 |
| BP (diastolic) | 519 | 0.98 | 0.96, 1.01 | 0.12 |
| Any postural drop in blood pressure | 502 |  |  |  |
| No |  | — | — |  |
| Yes |  | 0.44 | 0.14, 1.95 | 0.2 |
| Heart rate | 518 | 1.01 | 0.99, 1.02 | 0.5 |
| Hypotension | 502 |  |  |  |
| No |  | — | — |  |
| Yes |  | 1.17 | 0.40, 5.00 | 0.8 |
| Weakness | 503 |  |  |  |
| No |  | — | — |  |
| Yes |  | 0.89 | 0.33, 2.04 | 0.8 |
| Tiredness | 503 |  |  |  |
| No |  | — | — |  |
| Yes |  | 0.57 | 0.17, 1.47 | 0.3 |
| Poor appetite | 500 |  |  |  |
| No |  | — | — |  |
| Yes |  | 0.50 | 0.18, 1.13 | 0.12 |
| Weight loss | 505 |  |  |  |
| No |  | — | — |  |
| Yes |  | 1.04 | 0.38, 2.40 | >0.9 |
| Increased pigmentation of the skin | 488 |  |  |  |
| No |  | — | — |  |
| Yes |  | 1.15 | 0.60, 2.24 | 0.7 |
| Nausea | 503 |  |  |  |
| No |  | — | — |  |
| Yes |  | 0.82 | 0.43, 1.55 | 0.5 |
| Vomiting | 502 |  |  |  |
| No |  | — | — |  |
| Yes |  | 1.27 | 0.63, 2.80 | 0.5 |
| Liking for salt | 500 |  |  |  |
| No |  | — | — |  |
| Yes |  | 0.73 | 0.37, 1.38 | 0.3 |
| Hypoglycaemia | 501 |  |  |  |
| No |  | — | — |  |
| Yes |  | 0.91 | 0.17, 17.0 | >0.9 |
| Loss of consciousness | 500 |  |  |  |
| No |  | — | — |  |
| Yes |  | 1,419,703 | 0.00, NA | >0.9 |
| Diarrhoea | 499 |  |  |  |
| No |  | — | — |  |
| Yes |  | 1.10 | 0.58, 2.13 | 0.8 |
| Dizziness | 500 |  |  |  |
| No |  | — | — |  |
| Yes |  | 0.83 | 0.44, 1.58 | 0.6 |
| Shock | 504 |  |  |  |
| No |  | — | — |  |
| Yes |  | 1,438,418 | 0.00, NA | >0.9 |
| Anorexia | 502 |  |  |  |
| No |  | — | — |  |
| Yes |  | 1.39 | 0.73, 2.71 | 0.3 |
| Loss of axillary and pubic hair, if female | 505 |  |  |  |
| No |  | — | — |  |
| Not applicable |  | 1.26 | 0.62, 2.53 | 0.5 |
| Yes |  | 1.83 | 0.70, 5.71 | 0.3 |
| Presence of anaemia | 498 |  |  |  |
| No |  | — | — |  |
| Yes |  | 0.79 | 0.40, 1.53 | 0.5 |
| Presence of an opportunistic infection | 524 |  |  |  |
| No |  | — | — |  |
| Yes |  | 0.00 |  | >0.9 |
| Viral load (log10 Copies/mL) | 115 | 1.11 | 0.64, 1.87 | 0.7 |
| CD4 count | 522 | 0.98 | 0.93, 1.04 | 0.5 |
| Sodium mmol/L | 498 | 0.89 | 0.72, 1.06 | 0.3 |
| Potassium mmol/L | 496 | 1.07 | 0.91, 1.74 | 0.6 |
| Haemoglobin g/dL | 522 | 1.00 | 0.99, NA | 0.8 |
| White cell count X109 | 518 | 1.00 | 0.98, 1.03 | 0.6 |
| Lymphocyte count X109 | 120 | 1.01 | 0.96, NA | 0.8 |
| Neutrophils | 121 | 1.30 | 0.99, 3.56 | 0.4 |
| 3 followup\_patientstatus | 162 |  |  |  |
| Alive |  | — | — |  |
| Deceased --> EXIT form |  | 0.68 | 0.22, 2.56 | 0.5 |
| 6 followup\_patientstatus | 181 |  |  |  |
| Alive |  | — | — |  |
| Deceased --> EXIT form |  | 0.46 | 0.17, 1.31 | 0.13 |
| 12 followup\_patientstatus | 228 |  |  |  |
| Alive |  | — | — |  |
| Deceased --> EXIT form |  | 0.59 | 0.23, 1.62 | 0.3 |
| Tuberculosis | 528 |  |  |  |
| No |  | — | — |  |
| Yes |  | 1.65 | 0.85, 3.12 | 0.13 |
| Other | 528 |  |  |  |
| No |  | — | — |  |
| Yes |  | 0.54 | 0.29, 1.05 | 0.064 |
| 1OR = Odds Ratio, CI = Confidence Interval | | | | |

iter imp variable 1 1 BP\_diastolic Sodium Lymphocyte\_count Neutrophils Duration\_of\_current\_illness Age\_at\_enrolment gender 1 2 BP\_diastolic Sodium Lymphocyte\_count Neutrophils Duration\_of\_current\_illness Age\_at\_enrolment gender 1 3 BP\_diastolic Sodium Lymphocyte\_count Neutrophils Duration\_of\_current\_illness Age\_at\_enrolment gender 1 4 BP\_diastolic Sodium Lymphocyte\_count Neutrophils Duration\_of\_current\_illness Age\_at\_enrolment gender 1 5 BP\_diastolic Sodium Lymphocyte\_count Neutrophils Duration\_of\_current\_illness Age\_at\_enrolment gender 2 1 BP\_diastolic Sodium Lymphocyte\_count Neutrophils Duration\_of\_current\_illness Age\_at\_enrolment gender 2 2 BP\_diastolic Sodium Lymphocyte\_count Neutrophils Duration\_of\_current\_illness Age\_at\_enrolment gender 2 3 BP\_diastolic Sodium Lymphocyte\_count Neutrophils Duration\_of\_current\_illness Age\_at\_enrolment gender 2 4 BP\_diastolic Sodium Lymphocyte\_count Neutrophils Duration\_of\_current\_illness 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Df Deviance AIC

* Lymphocyte\_count 1 284.28 292.53
* Duration\_of\_current\_illness 1 286.31 294.56
* Tuberculosis 1 286.59 294.84 288.96 295.21
* Sodium 1 287.36 295.61
* Weakness 1 288.88 297.13
* Age\_at\_enrolment 1 288.91 297.16
* Weight\_loss 1 288.95 297.20
* gender 1 288.95 297.20

Step: AIC=292.55 AI\_recoded ~ Lymphocyte\_count

Df Deviance AIC

* Duration\_of\_current\_illness 1 281.61 291.88
* Tuberculosis 1 282.18 292.45 288.55 292.55
* Sodium 1 282.56 292.84
* Weakness 1 284.14 294.41
* gender 1 284.27 294.54
* Age\_at\_enrolment 1 284.27 294.55
* Weight\_loss 1 284.28 294.55
* Lymphocyte\_count 1 293.21 295.21

Step: AIC=291.73 AI\_recoded ~ Lymphocyte\_count + Duration\_of\_current\_illness

Df Deviance AIC

* Tuberculosis 1 279.12 291.25 285.73 291.73
* Sodium 1 279.97 292.10
* Duration\_of\_current\_illness 1 288.55 292.55
* Weakness 1 281.38 293.51
* gender 1 281.60 293.73
* Age\_at\_enrolment 1 281.60 293.73
* Weight\_loss 1 281.60 293.73
* Lymphocyte\_count 1 290.41 294.41

Step: AIC=291.36 AI\_recoded ~ Lymphocyte\_count + Duration\_of\_current\_illness + Tuberculosis

Df Deviance AIC

283.36 291.36 - Tuberculosis 1 285.73 291.73 + Sodium 1 277.74 291.98 - Duration\_of\_current\_illness 1 286.55 292.55 + Weakness 1 278.52 292.76 + Weight\_loss 1 278.96 293.20 + gender 1 279.10 293.34 + Age\_at\_enrolment 1 279.12 293.35 - Lymphocyte\_count 1 287.81 293.81 Start: AIC=295.21 AI\_recoded ~ 1

Df Deviance AIC

* Duration\_of\_current\_illness 1 285.98 294.23
* Tuberculosis 1 286.59 294.84 288.96 295.21
* Sodium 1 287.28 295.53
* Lymphocyte\_count 1 288.43 296.68
* Weakness 1 288.88 297.13
* Age\_at\_enrolment 1 288.91 297.16
* Weight\_loss 1 288.95 297.20
* gender 1 288.95 297.20

Step: AIC=294.09 AI\_recoded ~ Duration\_of\_current\_illness

Df Deviance AIC

* Tuberculosis 1 283.20 293.31 290.09 294.09
* Sodium 1 284.35 294.47
* Duration\_of\_current\_illness 1 293.21 295.21
* Lymphocyte\_count 1 285.40 295.51
* Weakness 1 285.85 295.96
* Age\_at\_enrolment 1 285.93 296.04
* Weight\_loss 1 285.95 296.07
* gender 1 285.97 296.09

Step: AIC=293.47 AI\_recoded ~ Duration\_of\_current\_illness + Tuberculosis

Df Deviance AIC

287.47 293.47 + Sodium 1 281.75 294.02 - Tuberculosis 1 290.09 294.09 + Lymphocyte\_count 1 282.51 294.78 - Duration\_of\_current\_illness 1 290.99 294.99 + Weakness 1 282.75 295.02 + Weight\_loss 1 283.10 295.37 + Age\_at\_enrolment 1 283.17 295.44 + gender 1 283.19 295.46 Start: AIC=295.21 AI\_recoded ~ 1

Df Deviance AIC

* Duration\_of\_current\_illness 1 286.38 294.62
* Tuberculosis 1 286.59 294.84 288.96 295.21
* Sodium 1 287.41 295.66
* Lymphocyte\_count 1 288.37 296.62
* Weakness 1 288.88 297.13
* Age\_at\_enrolment 1 288.91 297.16
* Weight\_loss 1 288.95 297.20
* gender 1 288.96 297.21

Step: AIC=294.5 AI\_recoded ~ Duration\_of\_current\_illness

Df Deviance AIC

* Tuberculosis 1 283.60 293.72 290.50 294.50
* Sodium 1 284.89 295.02
* Duration\_of\_current\_illness 1 293.21 295.21
* Lymphocyte\_count 1 285.85 295.98
* Weakness 1 286.25 296.37
* Age\_at\_enrolment 1 286.32 296.45
* Weight\_loss 1 286.35 296.48
* gender 1 286.37 296.50

Step: AIC=293.87 AI\_recoded ~ Duration\_of\_current\_illness + Tuberculosis

Df Deviance AIC

287.87 293.87 - Tuberculosis 1 290.50 294.50 + Sodium 1 282.32 294.60 - Duration\_of\_current\_illness 1 290.99 294.99 + Weakness 1 283.17 295.44 + Lymphocyte\_count 1 283.23 295.51 + Weight\_loss 1 283.50 295.77 + Age\_at\_enrolment 1 283.57 295.85 + gender 1 283.60 295.87 Start: AIC=295.21 AI\_recoded ~ 1

Df Deviance AIC

* Duration\_of\_current\_illness 1 286.32 294.57
* Tuberculosis 1 286.59 294.84
* Lymphocyte\_count 1 286.87 295.12 288.96 295.21
* Sodium 1 287.34 295.59
* Weakness 1 288.88 297.13
* Age\_at\_enrolment 1 288.91 297.16
* Weight\_loss 1 288.95 297.20
* gender 1 288.95 297.20

Step: AIC=294.44 AI\_recoded ~ Duration\_of\_current\_illness

Df Deviance AIC

* Tuberculosis 1 283.56 293.67 290.44 294.44
* Lymphocyte\_count 1 284.36 294.47
* Sodium 1 284.75 294.87
* Duration\_of\_current\_illness 1 293.21 295.21
* Weakness 1 286.20 296.31
* Age\_at\_enrolment 1 286.27 296.39
* Weight\_loss 1 286.30 296.42
* gender 1 286.32 296.43

Step: AIC=293.83 AI\_recoded ~ Duration\_of\_current\_illness + Tuberculosis

Df Deviance AIC

* Lymphocyte\_count 1 281.10 293.37 287.83 293.83
* Tuberculosis 1 290.44 294.44
* Sodium 1 282.18 294.45
* Duration\_of\_current\_illness 1 290.99 294.99
* Weakness 1 283.13 295.39
* Weight\_loss 1 283.46 295.73
* Age\_at\_enrolment 1 283.53 295.80
* gender 1 283.55 295.82

Step: AIC=293.39 AI\_recoded ~ Duration\_of\_current\_illness + Tuberculosis + Lymphocyte\_count

Df Deviance AIC

285.39 293.39 - Lymphocyte\_count 1 287.83 293.83 + Sodium 1 279.84 294.13 - Tuberculosis 1 288.41 294.41 - Duration\_of\_current\_illness 1 288.44 294.44 + Weakness 1 280.70 294.98 + Weight\_loss 1 281.03 295.32 + gender 1 281.09 295.38 + Age\_at\_enrolment 1 281.10 295.39 Start: AIC=295.21 AI\_recoded ~ 1

Df Deviance AIC

* Duration\_of\_current\_illness 1 286.21 294.46
* Tuberculosis 1 286.59 294.84 288.96 295.21
* Sodium 1 287.33 295.58
* Lymphocyte\_count 1 287.43 295.68
* Weakness 1 288.88 297.13
* Age\_at\_enrolment 1 288.91 297.16
* Weight\_loss 1 288.95 297.20
* gender 1 288.95 297.20

Step: AIC=294.33 AI\_recoded ~ Duration\_of\_current\_illness

Df Deviance AIC

* Tuberculosis 1 283.44 293.56 290.33 294.33
* Sodium 1 284.63 294.75
* Lymphocyte\_count 1 284.78 294.90
* Duration\_of\_current\_illness 1 293.21 295.21
* Weakness 1 286.08 296.20
* Age\_at\_enrolment 1 286.16 296.27
* Weight\_loss 1 286.19 296.30
* gender 1 286.21 296.32

Step: AIC=293.71 AI\_recoded ~ Duration\_of\_current\_illness + Tuberculosis

Df Deviance AIC

287.71 293.71 + Lymphocyte\_count 1 281.94 294.21 + Sodium 1 282.05 294.31 - Tuberculosis 1 290.33 294.33 - Duration\_of\_current\_illness 1 290.99 294.99 + Weakness 1 283.01 295.27 + Weight\_loss 1 283.35 295.61 + Age\_at\_enrolment 1 283.42 295.68 + gender 1 283.44 295.70 votes Duration\_of\_current\_illness Lymphocyte\_count 5 2 Tuberculosis 5 term estimate std.error statistic df 1 (Intercept) 2.10684675 0.2733113 7.7085973 307.6763 2 Duration\_of\_current\_illness -0.22564637 0.1185850 -1.9028246 518.1214 3 Lymphocyte\_count 0.08276049 0.1781943 0.4644396 13.6742 4 TuberculosisYes 0.55164592 0.3349227 1.6470844 514.4549 p.value 2.5 % 97.5 % 1 1.771322e-13 1.5690510 2.644642536 2 5.761748e-02 -0.4586128 0.007320068 3 6.496410e-01 -0.3002843 0.465805322 4 1.001513e-01 -0.1063385 1.209630284