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

Dr Joseph B Sempa

2023-01-20

Table of Contents

# Table 1

| Variable | N | Overall, N = 4291 | Females, N = 2181 | Males, N = 2111 | p-value2 |
| --- | --- | --- | --- | --- | --- |
| **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** | 318 | 21 (6.6%) | 10 (6.0%) | 11 (7.3%) | 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 2: comparing Addisons status with other variables

| Variable | N | yes, N = 211 | no, N = 2971 | p-value2 |
| --- | --- | --- | --- | --- |
| **Age at enrolment, median (IQR) (years)** | 318 | 36 (31, 43) | 36 (31, 42) | 0.6 |
| **Gender, n(%)** | 318 |  |  | 0.6 |
| Females |  | 10 (47.6%) | 157 (52.9%) |  |
| Males |  | 11 (52.4%) | 140 (47.1%) |  |
| **Ethnicity, n(%)** | 317 |  |  | 0.6 |
| Black African |  | 19 (90.5%) | 242 (81.8%) |  |
| Other |  | 2 (9.5%) | 54 (18.2%) |  |
| **Duration of current illness, median (IQR) (days)** | 300 | 14 (11, 21) | 14 (14, 30) | 0.2 |
| **Random cortisol** | 318 | 332 (253, 375) | 513 (388, 606) | <0.001 |
| **Basal cortisol** | 144 | 300 (185, 328) | 462 (352, 568) | <0.001 |
| **Stimulated cortisol** | 145 | 403 (316, 438) | 720 (616, 848) | <0.001 |
| **ACTH** | 318 | 37 (25, 72) | 31 (18, 48) | 0.029 |
| **BP (systolic)** | 318 | 120 (111, 129) | 110 (100, 125) | 0.10 |
| **BP (diastolic)** | 318 | 71 (70, 80) | 70 (60, 78) | 0.031 |
| **Heart rate** | 318 | 90 (77, 109) | 95 (81, 111) | 0.5 |
| **Hypotension** | 305 | 1 (4.8%) | 22 (7.7%) | >0.9 |
| **Weakness** | 306 | 16 (76.2%) | 252 (88.4%) | 0.2 |
| **Tiredness** | 307 | 18 (85.7%) | 261 (91.3%) | 0.4 |
| **Poor appetite** | 304 | 18 (85.7%) | 226 (79.9%) | 0.8 |
| **Weight loss** | 308 | 18 (85.7%) | 264 (92.0%) | 0.4 |
| **Increased pigmentation of the skin** | 292 | 8 (44.4%) | 131 (47.8%) | 0.8 |
| **Nausea** | 307 | 12 (57.1%) | 151 (52.8%) | 0.7 |
| **Vomiting** | 306 | 6 (28.6%) | 82 (28.8%) | >0.9 |
| **Liking for salt** | 305 | 14 (66.7%) | 193 (68.0%) | >0.9 |
| **Hypoglycaemia** | 306 | 0 (0.0%) | 7 (2.5%) | >0.9 |
| **Loss of consciousness** | 304 | 0 (0.0%) | 2 (0.7%) | >0.9 |
| **Diarrhoea** | 304 | 6 (28.6%) | 121 (42.8%) | 0.2 |
| **Dizziness** | 305 | 11 (55.0%) | 133 (46.7%) | 0.5 |
| **Shock** | 308 | 0 (0.0%) | 3 (1.0%) | >0.9 |
| **Anorexia** | 306 | 7 (33.3%) | 126 (44.2%) | 0.3 |
| **Loss of axillary and pubic hair, if female** | 309 |  |  | 0.8 |
| No |  | 8 (38.1%) | 103 (35.8%) |  |
| Not applicable |  | 11 (52.4%) | 134 (46.5%) |  |
| Yes |  | 2 (9.5%) | 51 (17.7%) |  |
| **Any postural drop in blood pressure** | 306 | 1 (4.8%) | 11 (3.9%) | 0.6 |
| **Presence of anaemia** | 303 | 12 (57.1%) | 155 (55.0%) | 0.8 |
| **Presence of an opportunistic infection** | 317 |  |  |  |
| Yes |  | 21 (100.0%) | 296 (100.0%) |  |
| **Viral load (log10 Copies/mL)** | 65 | 4.79 (4.67, 4.92) | 4.77 (3.28, 5.36) | >0.9 |
| **Total CD4 count** | 317 | 23 (14, 48) | 31 (14, 57) | 0.6 |
| **Sodium mmol/L** | 303 | 135.0 (132.0, 137.0) | 133.0 (130.0, 137.0) | 0.12 |
| **Potassium mmol/L** | 304 | 3.70 (3.30, 4.00) | 4.20 (3.70, 4.60) | 0.045 |
| **Haemoglobin g/dL** | 317 | 8.40 (7.60, 10.30) | 8.80 (7.40, 10.40) | 0.9 |
| **White cell count X109** | 316 | 5.2 (2.5, 6.5) | 5.7 (3.9, 8.3) | 0.3 |
| **Lymphocyte count X109** | 62 | 1.0 (0.6, 9.4) | 0.7 (0.4, 1.5) | 0.3 |
| **Neutrophils** | 61 | 1 (1, 1) | 3 (1, 7) | 0.055 |
| 1Median (IQR); n (%) | | | | |
| 2Wilcoxon rank sum test; Pearson's Chi-squared test; Fisher's exact test | | | | |

| Variable | N | yes, N = 101 | no, N = 1541 | p-value2 |
| --- | --- | --- | --- | --- |
| **Loss of axillary and pubic hair, if female** | 164 | 2 (20.0%) | 51 (33.1%) | 0.5 |
| 1n (%) | | | | |
| 2Fisher's exact test | | | | |

# Table 3: Bivariate table

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

| Variable | N | yes, N = 5 | no, N = 42 | p-value |
| --- | --- | --- | --- | --- |
| **Age at enrolment median (IQR) (years)** | 47 | 40 (31, 41) | 38 (33, 44) | >0.9 |
| **Gender, n(%)** | 47 |  |  | >0.9 |
| Females |  | 3 (60.0%) | 25 (59.5%) |  |
| Males |  | 2 (40.0%) | 17 (40.5%) |  |
| **Ethnicity, n(%)** | 47 |  |  | >0.9 |
| 1 |  | 4 (80.0%) | 35 (83.3%) |  |
| 2 |  | 1 (20.0%) | 7 (16.7%) |  |
| **Duration of current illness, median (IQR) (days)** | 44 | 9 (7, 266) | 1,257 (340, 2,792) | 0.067 |
| **Random cortisol** | 47 | 332 (281, 337) | 508 (367, 623) | 0.019 |
| **Basal cortisol** | 26 | 315 (301, 381) | 485 (419, 631) | 0.002 |
| **Stimulated cortisol** | 26 | 403 (347, 431) | 763 (630, 880) | <0.001 |
| **ACTH** | 47 | 48 (37, 88) | 39 (22, 53) | 0.3 |
| **BP (systolic)** | 47 | 127 (120, 128) | 110 (102, 120) | 0.2 |
| **BP (diastolic)** | 47 | 71 (63, 76) | 72 (67, 80) | 0.5 |
| **Heart rate** | 47 | 92 (68, 100) | 91 (80, 108) | 0.4 |
| **Hypotension** | 46 | 0 (0.0%) | 5 (12.2%) | >0.9 |
| **Weakness** | 46 | 3 (60.0%) | 38 (92.7%) | 0.084 |
| **Tiredness** | 45 | 5 (100.0%) | 37 (92.5%) | >0.9 |
| **Poor appetite** | 46 | 5 (100.0%) | 38 (92.7%) | >0.9 |
| **Weight loss** | 46 | 4 (80.0%) | 36 (87.8%) | 0.5 |
| **Increased pigmentation of the skin** | 44 | 2 (50.0%) | 24 (60.0%) | >0.9 |
| **Nausea** | 46 | 4 (80.0%) | 27 (65.9%) | >0.9 |
| **Vomiting** | 46 | 2 (40.0%) | 11 (26.8%) | 0.6 |
| **Liking for salt** | 46 | 3 (60.0%) | 28 (68.3%) | >0.9 |
| **Hypoglycaemia** | 46 |  |  |  |
| No |  | 5 (100.0%) | 41 (100.0%) |  |
| **Loss of consciousness** | 46 | 0 (0.0%) | 1 (2.4%) | >0.9 |
| **Diarrhoea** | 46 | 0 (0.0%) | 23 (56.1%) | 0.049 |
| **Dizziness** | 45 | 3 (60.0%) | 25 (62.5%) | >0.9 |
| **Shock** | 46 | 0 (0.0%) | 1 (2.4%) | >0.9 |
| **Anorexia** | 46 | 2 (40.0%) | 24 (58.5%) | 0.6 |
| **Loss of axillary and pubic hair, if female** | 45 |  |  | 0.8 |
| No |  | 2 (40.0%) | 11 (27.5%) |  |
| Not applicable |  | 2 (40.0%) | 15 (37.5%) |  |
| Yes |  | 1 (20.0%) | 14 (35.0%) |  |
| **Any postural drop in blood pressure** | 45 | 0 (0.0%) | 2 (5.0%) | >0.9 |
| **Presence of anaemia** | 46 | 3 (60.0%) | 24 (58.5%) | >0.9 |
| **Presence of an opportunistic infection** | 47 |  |  |  |
| Yes |  | 5 (100.0%) | 42 (100.0%) |  |
| **Tuberculosis** | 47 |  |  | 0.6 |
| Checked |  | 3 (60.0%) | 29 (69.0%) |  |
| Unchecked |  | 2 (40.0%) | 13 (31.0%) |  |
| **Cryptococcus neoformans** | 47 |  |  | >0.9 |
| Checked |  | 0 (0.0%) | 0 (0.0%) |  |
| Unchecked |  | 5 (100.0%) | 42 (100.0%) |  |
| **Toxoplasmosis** | 47 |  |  |  |
| Unchecked |  | 5 (100.0%) | 42 (100.0%) |  |
| **Mycobacterium avium-intracellulare** | 47 |  |  |  |
| Unchecked |  | 5 (100.0%) | 42 (100.0%) |  |
| **Kaposis sarcoma** | 47 |  |  | >0.9 |
| Checked |  | 0 (0.0%) | 0 (0.0%) |  |
| Unchecked |  | 5 (100.0%) | 42 (100.0%) |  |
| **Cytomegalovirus** | 47 |  |  | >0.9 |
| Checked |  | 0 (0.0%) | 0 (0.0%) |  |
| Unchecked |  | 5 (100.0%) | 42 (100.0%) |  |
| **Other** | 47 |  |  | >0.9 |
| Checked |  | 2 (40.0%) | 14 (33.3%) |  |
| Unchecked |  | 3 (60.0%) | 28 (66.7%) |  |
| **Viral load (log10 Copies/mL)** | 11 | NA (NA, NA) | 5.10 (4.55, 5.68) |  |
| **Total CD4 count** | 47 | 17 (15, 46) | 28 (14, 49) | 0.9 |
| **Sodium mmol/L** | 45 | 134.0 (133.0, 139.0) | 133.0 (128.0, 137.0) | 0.3 |
| **Potassium mmol/L** | 45 | 3.60 (3.30, 3.90) | 3.90 (3.60, 4.52) | 0.14 |
| **Haemoglobin g/dL** | 47 | 8.70 (8.10, 10.50) | 8.85 (7.50, 10.70) | >0.9 |
| **White cell count X109** | 47 | 5.8 (3.9, 10.8) | 5.4 (3.9, 7.7) | 0.7 |
| **Lymphocyte count X109** | 12 | NA (NA, NA) | 0.72 (0.38, 1.07) |  |

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

| Variable | N | yes, N = 5 | no, N = 16 | p-value |
| --- | --- | --- | --- | --- |
| **Age at enrolment median (IQR) (years)** | 21 | 40 (31, 41) | 36 (32, 44) | >0.9 |
| **Gender, n(%)** | 21 |  |  | 0.6 |
| Females |  | 3 (60.0%) | 7 (43.8%) |  |
| Males |  | 2 (40.0%) | 9 (56.2%) |  |
| **Ethnicity, n(%)** | 21 |  |  | 0.4 |
| 1 |  | 4 (80.0%) | 15 (93.8%) |  |
| 2 |  | 1 (20.0%) | 1 (6.2%) |  |
| **Duration of current illness, median (IQR) (days)** | 20 | 9 (7, 266) | 1,812 (346, 3,326) | 0.12 |
| **Random cortisol** | 21 | 332 (281, 337) | 298 (230, 376) | 0.8 |
| **Basal cortisol** | 21 | 315 (301, 381) | 275 (180, 326) | 0.2 |
| **Stimulated cortisol** | 21 | 403 (347, 431) | 398 (312, 447) | >0.9 |
| **ACTH** | 21 | 48 (37, 88) | 32 (25, 72) | 0.5 |
| **BP (systolic)** | 21 | 127 (120, 128) | 120 (110, 130) | 0.9 |
| **BP (diastolic)** | 21 | 71 (63, 76) | 74 (70, 85) | 0.3 |
| **Heart rate** | 21 | 92 (68, 100) | 87 (79, 115) | 0.5 |
| **Hypotension** | 21 | 0 (0.0%) | 1 (6.2%) | >0.9 |
| **Weakness** | 21 | 3 (60.0%) | 13 (81.2%) | 0.6 |
| **Tiredness** | 21 | 5 (100.0%) | 13 (81.2%) | 0.5 |
| **Poor appetite** | 21 | 5 (100.0%) | 13 (81.2%) | 0.5 |
| **Weight loss** | 21 | 4 (80.0%) | 14 (87.5%) | >0.9 |
| **Increased pigmentation of the skin** | 18 | 2 (50.0%) | 6 (42.9%) | >0.9 |
| **Nausea** | 21 | 4 (80.0%) | 8 (50.0%) | 0.3 |
| **Vomiting** | 21 | 2 (40.0%) | 4 (25.0%) | 0.6 |
| **Liking for salt** | 21 | 3 (60.0%) | 11 (68.8%) | >0.9 |
| **Hypoglycaemia** | 21 |  |  |  |
| No |  | 5 (100.0%) | 16 (100.0%) |  |
| **Loss of consciousness** | 20 |  |  |  |
| No |  | 5 (100.0%) | 15 (100.0%) |  |
| **Diarrhoea** | 21 | 0 (0.0%) | 6 (37.5%) | 0.3 |
| **Dizziness** | 20 | 3 (60.0%) | 8 (53.3%) | >0.9 |
| **Shock** | 21 |  |  |  |
| No |  | 5 (100.0%) | 16 (100.0%) |  |
| **Anorexia** | 21 | 2 (40.0%) | 5 (31.2%) | >0.9 |
| **Loss of axillary and pubic hair, if female** | 21 |  |  | 0.8 |
| No |  | 2 (40.0%) | 6 (37.5%) |  |
| Not applicable |  | 2 (40.0%) | 9 (56.2%) |  |
| Yes |  | 1 (20.0%) | 1 (6.2%) |  |
| **Any postural drop in blood pressure** | 21 | 0 (0.0%) | 1 (6.2%) | >0.9 |
| **Presence of anaemia** | 21 | 3 (60.0%) | 9 (56.2%) | >0.9 |
| **Presence of an opportunistic infection** | 21 |  |  |  |
| Yes |  | 5 (100.0%) | 16 (100.0%) |  |
| **Tuberculosis** | 21 |  |  | >0.9 |
| Checked |  | 3 (60.0%) | 8 (50.0%) |  |
| Unchecked |  | 2 (40.0%) | 8 (50.0%) |  |
| **Cryptococcus neoformans** | 21 |  |  | >0.9 |
| Checked |  | 0 (0.0%) | 0 (0.0%) |  |
| Unchecked |  | 5 (100.0%) | 16 (100.0%) |  |
| **Toxoplasmosis** | 21 |  |  |  |
| Unchecked |  | 5 (100.0%) | 16 (100.0%) |  |
| **Mycobacterium avium-intracellulare** | 21 |  |  |  |
| Unchecked |  | 5 (100.0%) | 16 (100.0%) |  |
| **Kaposis sarcoma** | 21 |  |  | >0.9 |
| Checked |  | 0 (0.0%) | 0 (0.0%) |  |
| Unchecked |  | 5 (100.0%) | 16 (100.0%) |  |
| **Cytomegalovirus** | 21 |  |  | >0.9 |
| Checked |  | 0 (0.0%) | 1 (6.2%) |  |
| Unchecked |  | 5 (100.0%) | 15 (93.8%) |  |
| **Other** | 21 |  |  | >0.9 |
| Checked |  | 2 (40.0%) | 8 (50.0%) |  |
| Unchecked |  | 3 (60.0%) | 8 (50.0%) |  |
| **Viral load (log10 Copies/mL)** | 2 |  |  | >0.9 |
| 4.54181629404385 |  | 0 (NA%) | 1 (50.0%) |  |
| 5.04006012250337 |  | 0 (NA%) | 1 (50.0%) |  |
| **Total CD4 count** | 21 | 17 (15, 46) | 26 (13, 50) | >0.9 |
| **Sodium mmol/L** | 21 | 134.0 (133.0, 139.0) | 135.0 (131.8, 137.0) | 0.9 |
| **Potassium mmol/L** | 21 | 3.60 (3.30, 3.90) | 3.80 (3.27, 4.60) | 0.6 |
| **Haemoglobin g/dL** | 21 | 8.70 (8.10, 10.50) | 8.20 (7.57, 10.22) | 0.6 |
| **White cell count X109** | 21 | 6 (4, 11) | 4 (2, 6) | 0.3 |
| **Lymphocyte count X109** | 4 |  |  | >0.9 |
| 0.49000001 |  | 0 (NA%) | 1 (25.0%) |  |
| 0.600000024 |  | 0 (NA%) | 1 (25.0%) |  |
| 1.309999943 |  | 0 (NA%) | 1 (25.0%) |  |
| 33.59999847 |  | 0 (NA%) | 1 (25.0%) |  |
| **Addisons disease** | 21 | 5 (100.0%) | 16 (100.0%) | >0.9 |

| Characteristic | N | HR1 | 95% CI1 | 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 | 318 |  |  |  |
| no |  | — | — |  |
| yes |  | 1.82 | 0.72, 4.60 | 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)

iter imp variable 1 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 Addisons\_disease Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 1 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 Addisons\_disease Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 1 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 Addisons\_disease Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 1 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 Addisons\_disease Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 1 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 Addisons\_disease Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 2 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 Addisons\_disease Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 2 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 Addisons\_disease Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 2 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 Addisons\_disease Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 2 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 Addisons\_disease Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 2 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 Addisons\_disease Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 3 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 Addisons\_disease Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 3 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 Addisons\_disease Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 3 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 Addisons\_disease Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 3 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 Addisons\_disease Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 3 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 Addisons\_disease Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 4 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 Addisons\_disease Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 4 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 Addisons\_disease Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 4 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 Addisons\_disease Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 4 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 Addisons\_disease Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 4 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 Addisons\_disease Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 5 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 Addisons\_disease Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 5 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 Addisons\_disease Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 5 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 Addisons\_disease Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 5 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 Addisons\_disease Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 5 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 Addisons\_disease Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 6 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 Addisons\_disease Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 6 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 Addisons\_disease Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 6 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 Addisons\_disease Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 6 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 Addisons\_disease Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 6 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 Addisons\_disease Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 7 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 Addisons\_disease Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 7 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 Addisons\_disease Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 7 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 Addisons\_disease Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 7 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 Addisons\_disease Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 7 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 Addisons\_disease Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 8 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 Addisons\_disease Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 8 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 Addisons\_disease Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 8 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 Addisons\_disease Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 8 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 Addisons\_disease Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 8 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 Addisons\_disease Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 9 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 Addisons\_disease Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 9 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 Addisons\_disease Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 9 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 Addisons\_disease Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 9 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 Addisons\_disease Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 9 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 Addisons\_disease Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 10 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 Addisons\_disease Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 10 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 Addisons\_disease Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 10 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 Addisons\_disease Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 10 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 Addisons\_disease Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 10 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 Addisons\_disease Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 11 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 Addisons\_disease Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 11 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 Addisons\_disease Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 11 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 Addisons\_disease Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 11 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 Addisons\_disease Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 11 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 Addisons\_disease Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 12 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 Addisons\_disease Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 12 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 Addisons\_disease Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 12 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 Addisons\_disease Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 12 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 Addisons\_disease Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 12 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 Addisons\_disease Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 13 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 Addisons\_disease Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 13 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 Addisons\_disease Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 13 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 Addisons\_disease Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 13 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 Addisons\_disease Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 13 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 Addisons\_disease Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 14 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 Addisons\_disease Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 14 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 Addisons\_disease Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 14 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 Addisons\_disease Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 14 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 Addisons\_disease Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 14 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 Addisons\_disease Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 15 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 Addisons\_disease Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 15 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 Addisons\_disease Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 15 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 Addisons\_disease Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 15 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 Addisons\_disease Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 15 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 Addisons\_disease Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate 16 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 Addisons\_disease 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 Addisons\_disease 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 Addisons\_disease 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 Addisons\_disease 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 Addisons\_disease 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 Addisons\_disease 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 Addisons\_disease 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 Addisons\_disease 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 Addisons\_disease 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 Addisons\_disease 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 Addisons\_disease 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 Addisons\_disease 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 Addisons\_disease 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 Addisons\_disease 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 Addisons\_disease 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 Addisons\_disease 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 Addisons\_disease 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 Addisons\_disease 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 Addisons\_disease 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 Addisons\_disease 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 Addisons\_disease 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 Addisons\_disease 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 Addisons\_disease 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 Addisons\_disease 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 Addisons\_disease Random.cortisol Basal.cortisol Stimulated.cortisol ACTH BP..systolic. BP..diastolic. Heart.rate Start: AIC=636.34 Surv(ttdeath, mortality) ~ 1

Df AIC

* Potassium.mmol.L 1 635.08
* Viral.load..log10.Copies.mL. 1 635.52 636.34
* Age\_at\_enrolment 1 636.58
* CD4.count 1 636.76
* Neutrophils 1 636.89
* Lymphocyte\_count 1 637.02
* Addisons\_disease 1 637.35
* gender 1 637.52
* Duration\_of\_current\_illness 1 637.76
* Haemoglobin 1 638.14
* Sodium 1 638.23
* Ethnicity 1 638.25
* White\_cell\_count 1 638.29

Step: AIC=635.08 Surv(ttdeath, mortality) ~ Potassium.mmol.L

Df AIC

* Viral.load..log10.Copies.mL. 1 633.66 635.08
* Age\_at\_enrolment 1 635.11
* Lymphocyte\_count 1 635.61
* CD4.count 1 635.80
* White\_cell\_count 1 635.88
* Addisons\_disease 1 636.14
* Neutrophils 1 636.31
* Potassium.mmol.L 1 636.34
* Duration\_of\_current\_illness 1 636.44
* gender 1 636.60
* Haemoglobin 1 636.89
* Sodium 1 636.95
* Ethnicity 1 636.99

Step: AIC=633.66 Surv(ttdeath, mortality) ~ Potassium.mmol.L + Viral.load..log10.Copies.mL.

Df AIC

633.66 + Age\_at\_enrolment 1 634.30 + Lymphocyte\_count 1 634.31 + Neutrophils 1 634.64 + gender 1 634.73 + White\_cell\_count 1 634.85 + Addisons\_disease 1 634.89 - Viral.load..log10.Copies.mL. 1 635.08 + Duration\_of\_current\_illness 1 635.14 - Potassium.mmol.L 1 635.52 + CD4.count 1 635.52 + Ethnicity 1 635.56 + Haemoglobin 1 635.58 + Sodium 1 635.65 Start: AIC=636.34 Surv(ttdeath, mortality) ~ 1

Df AIC

* Viral.load..log10.Copies.mL. 1 612.34
* Potassium.mmol.L 1 634.80 636.34
* Age\_at\_enrolment 1 636.43
* CD4.count 1 636.79
* Lymphocyte\_count 1 636.84
* gender 1 637.52
* Duration\_of\_current\_illness 1 637.75
* Addisons\_disease 1 638.05
* Haemoglobin 1 638.14
* Sodium 1 638.15
* Ethnicity 1 638.19
* Neutrophils 1 638.24
* White\_cell\_count 1 638.29

Step: AIC=612.34 Surv(ttdeath, mortality) ~ Viral.load..log10.Copies.mL.

Df AIC

* Lymphocyte\_count 1 608.84
* Potassium.mmol.L 1 609.97 612.34
* Age\_at\_enrolment 1 612.98
* gender 1 613.24
* Ethnicity 1 613.79
* Sodium 1 614.02
* Haemoglobin 1 614.02
* Addisons\_disease 1 614.05
* Neutrophils 1 614.14
* White\_cell\_count 1 614.16
* Duration\_of\_current\_illness 1 614.30
* CD4.count 1 614.33
* Viral.load..log10.Copies.mL. 1 636.34

Step: AIC=608.84 Surv(ttdeath, mortality) ~ Viral.load..log10.Copies.mL. + Lymphocyte\_count

Df AIC

* Potassium.mmol.L 1 605.04
* gender 1 608.34
* Age\_at\_enrolment 1 608.44 608.84
* CD4.count 1 610.21
* Ethnicity 1 610.29
* Haemoglobin 1 610.40
* Neutrophils 1 610.43
* Addisons\_disease 1 610.64
* White\_cell\_count 1 610.66
* Duration\_of\_current\_illness 1 610.73
* Sodium 1 610.83
* Lymphocyte\_count 1 612.34
* Viral.load..log10.Copies.mL. 1 636.84

Step: AIC=605.04 Surv(ttdeath, mortality) ~ Viral.load..log10.Copies.mL. + Lymphocyte\_count + Potassium.mmol.L

Df AIC

* Age\_at\_enrolment 1 604.64 605.04
* gender 1 605.59
* CD4.count 1 606.09
* Neutrophils 1 606.57
* Ethnicity 1 606.58
* Haemoglobin 1 606.64
* White\_cell\_count 1 606.69
* Duration\_of\_current\_illness 1 606.89
* Addisons\_disease 1 606.91
* Sodium 1 607.02
* Potassium.mmol.L 1 608.84
* Lymphocyte\_count 1 609.97
* Viral.load..log10.Copies.mL. 1 635.00

Step: AIC=604.64 Surv(ttdeath, mortality) ~ Viral.load..log10.Copies.mL. + Lymphocyte\_count + Potassium.mmol.L + Age\_at\_enrolment

Df AIC

604.64 + gender 1 604.92 - Age\_at\_enrolment 1 605.04 + White\_cell\_count 1 605.79 + Neutrophils 1 605.93 + CD4.count 1 606.01 + Haemoglobin 1 606.05 + Ethnicity 1 606.11 + Addisons\_disease 1 606.45 + Duration\_of\_current\_illness 1 606.48 + Sodium 1 606.64 - Potassium.mmol.L 1 608.44 - Lymphocyte\_count 1 610.83 - Viral.load..log10.Copies.mL. 1 634.53 Start: AIC=636.34 Surv(ttdeath, mortality) ~ 1

Df AIC

* Potassium.mmol.L 1 634.08
* Lymphocyte\_count 1 634.13 636.34
* Age\_at\_enrolment 1 636.40
* Neutrophils 1 636.77
* CD4.count 1 636.79
* Viral.load..log10.Copies.mL. 1 637.13
* Addisons\_disease 1 637.20
* gender 1 637.52
* Sodium 1 637.69
* Duration\_of\_current\_illness 1 637.91
* Haemoglobin 1 638.14
* Ethnicity 1 638.25
* White\_cell\_count 1 638.29

Step: AIC=634.08 Surv(ttdeath, mortality) ~ Potassium.mmol.L

Df AIC

* Lymphocyte\_count 1 632.94
* Age\_at\_enrolment 1 634.07 634.08
* Viral.load..log10.Copies.mL. 1 634.38
* CD4.count 1 634.79
* Neutrophils 1 634.80
* Addisons\_disease 1 635.01
* Sodium 1 635.38
* Duration\_of\_current\_illness 1 635.58
* gender 1 635.65
* Haemoglobin 1 635.90
* Ethnicity 1 635.98
* White\_cell\_count 1 636.07
* Potassium.mmol.L 1 636.34

Step: AIC=632.94 Surv(ttdeath, mortality) ~ Potassium.mmol.L + Lymphocyte\_count

Df AIC

* Viral.load..log10.Copies.mL. 1 632.13
* Addisons\_disease 1 632.74 632.94
* Age\_at\_enrolment 1 633.21
* Neutrophils 1 633.70
* CD4.count 1 633.89
* Lymphocyte\_count 1 634.08
* Potassium.mmol.L 1 634.13
* Duration\_of\_current\_illness 1 634.22
* gender 1 634.42
* Sodium 1 634.52
* Haemoglobin 1 634.68
* Ethnicity 1 634.69
* White\_cell\_count 1 634.89

Step: AIC=632.13 Surv(ttdeath, mortality) ~ Potassium.mmol.L + Lymphocyte\_count + Viral.load..log10.Copies.mL.

Df AIC

632.13 + Neutrophils 1 632.55 + Addisons\_disease 1 632.65 + Age\_at\_enrolment 1 632.84 - Viral.load..log10.Copies.mL. 1 632.94 + gender 1 633.39 + Ethnicity 1 633.54 + Duration\_of\_current\_illness 1 633.64 + Sodium 1 633.83 - Potassium.mmol.L 1 633.87 + Haemoglobin 1 633.99 + CD4.count 1 634.00 + White\_cell\_count 1 634.13 - Lymphocyte\_count 1 634.38 Start: AIC=636.34 Surv(ttdeath, mortality) ~ 1

Df AIC

* Viral.load..log10.Copies.mL. 1 625.37
* Potassium.mmol.L 1 634.82
* Lymphocyte\_count 1 635.76 636.34
* Age\_at\_enrolment 1 636.41
* Addisons\_disease 1 636.52
* CD4.count 1 636.61
* Neutrophils 1 637.36
* gender 1 637.52
* Sodium 1 637.81
* Duration\_of\_current\_illness 1 637.84
* Haemoglobin 1 638.14
* Ethnicity 1 638.25
* White\_cell\_count 1 638.29

Step: AIC=625.37 Surv(ttdeath, mortality) ~ Viral.load..log10.Copies.mL.

Df AIC

* Potassium.mmol.L 1 622.67 625.37
* Age\_at\_enrolment 1 625.58
* gender 1 626.37
* Duration\_of\_current\_illness 1 626.74
* Addisons\_disease 1 626.83
* Lymphocyte\_count 1 626.89
* Ethnicity 1 627.08
* Neutrophils 1 627.20
* Haemoglobin 1 627.35
* Sodium 1 627.36
* White\_cell\_count 1 627.36
* CD4.count 1 627.37
* Viral.load..log10.Copies.mL. 1 636.34

Step: AIC=622.67 Surv(ttdeath, mortality) ~ Viral.load..log10.Copies.mL. + Potassium.mmol.L

Df AIC

622.67 + Age\_at\_enrolment 1 622.68 + Duration\_of\_current\_illness 1 623.90 + gender 1 623.99 + White\_cell\_count 1 624.00 + Lymphocyte\_count 1 624.16 + Addisons\_disease 1 624.19 + Ethnicity 1 624.37 + CD4.count 1 624.51 + Sodium 1 624.65 + Haemoglobin 1 624.65 + Neutrophils 1 624.66 - Potassium.mmol.L 1 625.37 - Viral.load..log10.Copies.mL. 1 634.82 Start: AIC=636.34 Surv(ttdeath, mortality) ~ 1

Df AIC

* Viral.load..log10.Copies.mL. 1 628.79
* Potassium.mmol.L 1 635.52 636.34
* Age\_at\_enrolment 1 636.46
* CD4.count 1 636.66
* Addisons\_disease 1 637.03
* gender 1 637.52
* Sodium 1 637.84
* Duration\_of\_current\_illness 1 638.00
* Haemoglobin 1 638.13
* Ethnicity 1 638.22
* Lymphocyte\_count 1 638.22
* Neutrophils 1 638.25
* White\_cell\_count 1 638.29

Step: AIC=628.79 Surv(ttdeath, mortality) ~ Viral.load..log10.Copies.mL.

Df AIC

* Potassium.mmol.L 1 626.36
* Age\_at\_enrolment 1 628.34 628.79
* gender 1 629.30
* Lymphocyte\_count 1 630.16
* Ethnicity 1 630.26
* Addisons\_disease 1 630.37
* CD4.count 1 630.40
* Neutrophils 1 630.47
* Sodium 1 630.53
* Haemoglobin 1 630.67
* Duration\_of\_current\_illness 1 630.68
* White\_cell\_count 1 630.79
* Viral.load..log10.Copies.mL. 1 636.34

Step: AIC=626.36 Surv(ttdeath, mortality) ~ Viral.load..log10.Copies.mL. + Potassium.mmol.L

Df AIC

* Age\_at\_enrolment 1 625.67 626.36
* gender 1 627.38
* Lymphocyte\_count 1 627.60
* Ethnicity 1 627.75
* Addisons\_disease 1 628.05
* Sodium 1 628.18
* Neutrophils 1 628.20
* CD4.count 1 628.23
* Duration\_of\_current\_illness 1 628.23
* Haemoglobin 1 628.26
* White\_cell\_count 1 628.33
* Potassium.mmol.L 1 628.79
* Viral.load..log10.Copies.mL. 1 635.52

Step: AIC=625.67 Surv(ttdeath, mortality) ~ Viral.load..log10.Copies.mL. + Potassium.mmol.L + Age\_at\_enrolment

Df AIC

625.67 + gender 1 626.24 - Age\_at\_enrolment 1 626.36 + Ethnicity 1 626.70 + Lymphocyte\_count 1 627.22 + CD4.count 1 627.26 + Addisons\_disease 1 627.31 + Neutrophils 1 627.45 + Haemoglobin 1 627.51 + White\_cell\_count 1 627.52 + Duration\_of\_current\_illness 1 627.55 + Sodium 1 627.59 - Potassium.mmol.L 1 628.34 - Viral.load..log10.Copies.mL. 1 635.53 votes Age\_at\_enrolment Lymphocyte\_count 2 2 Potassium.mmol.L Viral.load..log10.Copies.mL. 5 5 term estimate std.error statistic df 1 Addisons\_disease 0.35688095 0.50440392 0.7075301 32.882175 2 Viral.load..log10.Copies.mL. 0.31734860 0.24052595 1.3193944 3.659459 3 Lymphocyte\_count -0.01683956 0.04412859 -0.3816021 4.045038 4 Potassium.mmol.L -0.16732391 0.15306963 -1.0931229 39.191166 5 Age\_at\_enrolment 0.02177722 0.01523178 1.4297227 43.304464 p.value 2.5 % 97.5 % 1 0.4842220 -0.669476248 1.38323814 2 0.2635244 -0.375695828 1.01039302 3 0.7219564 -0.138824031 0.10514491 4 0.2810137 -0.476888182 0.14224036 5 0.1599720 -0.008934345 0.05248879 png 2

# Table 5 univariate analysis for addisson’s disease

| Characteristic | N | OR1 | 95% CI1 | p-value |
| --- | --- | --- | --- | --- |
| Age\_at\_enrolment | 318 | 1.01 | 0.96, 1.06 | 0.6 |
| gender | 318 |  |  |  |
| Females |  | — | — |  |
| Males |  | 1.23 | 0.51, 3.05 | 0.6 |
| Ethnicity | 317 |  |  |  |
| 1 |  | — | — |  |
| 2 |  | 0.47 | 0.07, 1.69 | 0.3 |
| HIV\_duration | 282 | 1.00 | 1.00, 1.00 | 0.4 |
| Random\_cortisol | 318 | 0.99 | 0.98, 0.99 | <0.001 |
| Basal\_cortisol | 144 | 0.99 | 0.98, 0.99 | <0.001 |
| Stimulated\_cortisol | 145 | 0.98 | 0.97, 0.99 | <0.001 |
| ACTH | 318 | 1.01 | 1.00, 1.02 | 0.011 |
| BP\_systolic | 318 | 1.01 | 0.99, 1.04 | 0.3 |
| BP\_diastolic | 318 | 1.04 | 1.00, 1.07 | 0.044 |
| Heart\_rate | 318 | 0.99 | 0.97, 1.01 | 0.5 |
| Hypotension | 305 |  |  |  |
| No |  | — | — |  |
| Yes |  | 0.60 | 0.03, 3.08 | 0.6 |
| Weakness | 306 |  |  |  |
| No |  | — | — |  |
| Yes |  | 0.42 | 0.15, 1.35 | 0.11 |
| Tiredness | 307 |  |  |  |
| No |  | — | — |  |
| Yes |  | 0.57 | 0.18, 2.57 | 0.4 |
| Poor\_appetite | 304 |  |  |  |
| No |  | — | — |  |
| Yes |  | 1.51 | 0.49, 6.62 | 0.5 |
| Weight\_loss | 308 |  |  |  |
| No |  | — | — |  |
| Yes |  | 0.52 | 0.16, 2.35 | 0.3 |
| Increased\_pigmentation\_of\_the\_skin | 292 |  |  |  |
| No |  | — | — |  |
| Yes |  | 0.87 | 0.32, 2.28 | 0.8 |
| Nausea | 307 |  |  |  |
| No |  | — | — |  |
| Yes |  | 1.19 | 0.49, 3.00 | 0.7 |
| Vomiting | 306 |  |  |  |
| No |  | — | — |  |
| Yes |  | 0.99 | 0.34, 2.53 | >0.9 |
| Liking\_for\_salt | 305 |  |  |  |
| No |  | — | — |  |
| Yes |  | 0.94 | 0.38, 2.56 | >0.9 |
| Hypoglycaemia | 306 |  |  |  |
| No |  | — | — |  |
| Yes |  | 0.00 |  | >0.9 |
| Loss\_of\_consciousness | 304 |  |  |  |
| No |  | — | — |  |
| Yes |  | 0.00 |  | >0.9 |
| Diarrhoea | 304 |  |  |  |
| No |  | — | — |  |
| Yes |  | 0.54 | 0.19, 1.36 | 0.2 |
| Dizziness | 305 |  |  |  |
| No |  | — | — |  |
| Yes |  | 1.40 | 0.56, 3.56 | 0.5 |
| Shock | 308 |  |  |  |
| No |  | — | — |  |
| Yes |  | 0.00 |  | >0.9 |
| Anorexia | 306 |  |  |  |
| No |  | — | — |  |
| Yes |  | 0.63 | 0.23, 1.56 | 0.3 |
| Loss\_of\_axillary\_and\_pubic\_hair | 309 |  |  |  |
| No |  | — | — |  |
| Not applicable |  | 1.06 | 0.41, 2.82 | >0.9 |
| Yes |  | 0.50 | 0.07, 2.10 | 0.4 |
| Any\_postural\_drop\_in\_blood\_pressure | 306 |  |  |  |
| No |  | — | — |  |
| Yes |  | 1.25 | 0.07, 6.91 | 0.8 |
| Presence\_of\_anaemia | 303 |  |  |  |
| No |  | — | — |  |
| Yes |  | 1.09 | 0.45, 2.75 | 0.8 |
| Tuberculosis | 318 |  |  |  |
| Checked |  | — | — |  |
| Unchecked |  | 2.89 | 1.16, 7.14 | 0.020 |
| Kaposis\_sarcoma | 318 |  |  |  |
| Checked |  | — | — |  |
| Unchecked |  | 408,493 | 0.00, NA | >0.9 |
| Cytomegalovirus | 318 |  |  |  |
| Checked |  | — | — |  |
| Unchecked |  | 0.00 |  | >0.9 |
| Other | 318 |  |  |  |
| Checked |  | — | — |  |
| Unchecked |  | 0.39 | 0.16, 0.97 | 0.040 |
| Viral\_load | 65 | 1.35 | 0.49, 5.52 | 0.6 |
| CD4\_count | 317 | 1.00 | 0.98, 1.01 | 0.6 |
| Sodium | 303 | 1.03 | 0.98, 1.09 | 0.2 |
| Potassium | 304 | 1.03 | 0.91, 1.10 | 0.5 |
| Haemoglobin | 317 | 0.99 | 0.81, 1.21 | >0.9 |
| White\_cell\_count | 316 | 1.00 |  | 0.8 |
| Lymphocyte\_count | 62 | 1.08 | 0.96, 1.19 | 0.12 |
| 1OR = Odds Ratio, CI = Confidence Interval | | | | |

iter imp variable 1 1 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 1 2 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 1 3 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 1 4 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 1 5 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 2 1 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 2 2 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 2 3 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 2 4 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 2 5 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 3 1 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 3 2 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 3 3 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 3 4 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 3 5 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 4 1 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 4 2 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 4 3 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 4 4 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 4 5 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 5 1 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 5 2 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 5 3 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 5 4 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 5 5 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 6 1 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 6 2 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 6 3 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 6 4 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 6 5 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 7 1 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 7 2 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 7 3 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 7 4 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 7 5 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 8 1 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 8 2 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 8 3 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 8 4 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 8 5 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 9 1 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 9 2 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 9 3 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 9 4 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 9 5 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 10 1 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 10 2 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 10 3 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 10 4 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 10 5 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 11 1 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 11 2 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 11 3 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 11 4 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 11 5 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 12 1 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 12 2 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 12 3 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 12 4 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 12 5 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 13 1 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 13 2 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 13 3 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 13 4 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 13 5 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 14 1 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 14 2 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 14 3 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 14 4 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 14 5 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 15 1 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 15 2 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 15 3 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 15 4 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 15 5 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 16 1 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 16 2 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 16 3 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 16 4 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 16 5 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 17 1 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 17 2 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 17 3 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 17 4 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 17 5 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 18 1 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 18 2 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 18 3 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 18 4 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 18 5 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 19 1 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 19 2 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 19 3 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 19 4 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 19 5 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 20 1 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 20 2 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 20 3 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 20 4 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count 20 5 Basal\_cortisol Stimulated\_cortisol Sodium Lymphocyte\_count Start: AIC=156.72 Addisons\_disease ~ 1

Df Deviance AIC

* Stimulated\_cortisol 1 62.983 66.983
* Basal\_cortisol 1 101.442 105.442
* Random\_cortisol 1 117.011 121.011
* Lymphocyte\_count 1 122.155 126.155
* ACTH 1 148.472 152.472
* Tuberculosis 1 149.574 153.574
* Other 1 150.662 154.662
* BP\_diastolic 1 150.803 154.803 154.718 156.718
* Sodium 1 153.137 157.137

Step: AIC=66.98 Addisons\_disease ~ Stimulated\_cortisol

Df Deviance AIC

* Lymphocyte\_count 1 54.421 60.421
* Sodium 1 57.276 63.276
* ACTH 1 57.508 63.508
* BP\_diastolic 1 58.628 64.628
* Tuberculosis 1 60.473 66.473 62.983 66.983
* Random\_cortisol 1 61.458 67.458
* Basal\_cortisol 1 61.791 67.791
* Other 1 62.500 68.500
* Stimulated\_cortisol 1 154.718 156.718

Step: AIC=60.42 Addisons\_disease ~ Stimulated\_cortisol + Lymphocyte\_count

Df Deviance AIC

* ACTH 1 49.989 57.989
* BP\_diastolic 1 50.386 58.386
* Sodium 1 51.313 59.313 54.421 60.421
* Tuberculosis 1 52.561 60.561
* Basal\_cortisol 1 53.054 61.054
* Random\_cortisol 1 54.105 62.105
* Other 1 54.353 62.353
* Lymphocyte\_count 1 62.983 66.983
* Stimulated\_cortisol 1 122.155 126.155

Step: AIC=57.99 Addisons\_disease ~ Stimulated\_cortisol + Lymphocyte\_count + ACTH

Df Deviance AIC

* Sodium 1 45.774 55.774
* BP\_diastolic 1 46.638 56.638 49.989 57.989
* Tuberculosis 1 48.257 58.257
* Basal\_cortisol 1 48.352 58.352
* Random\_cortisol 1 48.587 58.587
* Other 1 49.965 59.965
* ACTH 1 54.421 60.421
* Lymphocyte\_count 1 57.508 63.508
* Stimulated\_cortisol 1 118.487 124.487

Step: AIC=55.77 Addisons\_disease ~ Stimulated\_cortisol + Lymphocyte\_count + ACTH + Sodium

Df Deviance AIC

* BP\_diastolic 1 38.896 50.896
* Basal\_cortisol 1 43.442 55.442
* Tuberculosis 1 43.579 55.579 45.774 55.774
* Random\_cortisol 1 45.463 57.463
* Other 1 45.762 57.762
* Sodium 1 49.989 57.989
* ACTH 1 51.313 59.313
* Lymphocyte\_count 1 51.383 59.383
* Stimulated\_cortisol 1 117.192 125.192

Step: AIC=50.9 Addisons\_disease ~ Stimulated\_cortisol + Lymphocyte\_count + ACTH + Sodium + BP\_diastolic

Df Deviance AIC

38.896 50.896 + Basal\_cortisol 1 37.756 51.756 + Tuberculosis 1 38.011 52.011 + Other 1 38.670 52.670 + Random\_cortisol 1 38.815 52.815 - Lymphocyte\_count 1 45.126 55.126 - ACTH 1 45.199 55.199 - BP\_diastolic 1 45.774 55.774 - Sodium 1 46.638 56.638 - Stimulated\_cortisol 1 115.807 125.807 Start: AIC=156.72 Addisons\_disease ~ 1

Df Deviance AIC

* Stimulated\_cortisol 1 55.972 59.972
* Basal\_cortisol 1 99.196 103.196
* Random\_cortisol 1 117.011 121.011
* Lymphocyte\_count 1 143.343 147.343
* ACTH 1 148.472 152.472
* Tuberculosis 1 149.574 153.574
* Other 1 150.662 154.662
* BP\_diastolic 1 150.803 154.803 154.718 156.718
* Sodium 1 153.318 157.318

Step: AIC=59.97 Addisons\_disease ~ Stimulated\_cortisol

Df Deviance AIC

* Lymphocyte\_count 1 45.477 51.477
* ACTH 1 48.587 54.587
* BP\_diastolic 1 50.879 56.879
* Basal\_cortisol 1 53.742 59.742 55.972 59.972
* Tuberculosis 1 55.001 61.001
* Random\_cortisol 1 55.835 61.835
* Other 1 55.959 61.959
* Sodium 1 55.971 61.971
* Stimulated\_cortisol 1 154.718 156.718

Step: AIC=51.48 Addisons\_disease ~ Stimulated\_cortisol + Lymphocyte\_count

Df Deviance AIC

* ACTH 1 37.758 45.758
* BP\_diastolic 1 41.521 49.521
* Basal\_cortisol 1 42.971 50.971 45.477 51.477
* Other 1 44.000 52.000
* Sodium 1 45.190 53.190
* Tuberculosis 1 45.399 53.399
* Random\_cortisol 1 45.406 53.406
* Lymphocyte\_count 1 55.972 59.972
* Stimulated\_cortisol 1 143.343 147.343

Step: AIC=45.76 Addisons\_disease ~ Stimulated\_cortisol + Lymphocyte\_count + ACTH

Df Deviance AIC

* Basal\_cortisol 1 32.887 42.887
* BP\_diastolic 1 34.954 44.954 37.758 45.758
* Other 1 36.997 46.997
* Random\_cortisol 1 37.332 47.332
* Sodium 1 37.502 47.502
* Tuberculosis 1 37.723 47.723
* ACTH 1 45.477 51.477
* Lymphocyte\_count 1 48.587 54.587
* Stimulated\_cortisol 1 137.354 143.354

Step: AIC=42.89 Addisons\_disease ~ Stimulated\_cortisol + Lymphocyte\_count + ACTH + Basal\_cortisol

Df Deviance AIC

* BP\_diastolic 1 30.032 42.032 32.887 42.887
* Other 1 32.568 44.568
* Sodium 1 32.644 44.644
* Tuberculosis 1 32.869 44.869
* Random\_cortisol 1 32.876 44.876
* Basal\_cortisol 1 37.758 45.758
* ACTH 1 42.971 50.971
* Lymphocyte\_count 1 44.866 52.866
* Stimulated\_cortisol 1 70.325 78.325

Step: AIC=42.03 Addisons\_disease ~ Stimulated\_cortisol + Lymphocyte\_count + ACTH + Basal\_cortisol + BP\_diastolic

Df Deviance AIC

30.032 42.032 - BP\_diastolic 1 32.887 42.887 + Other 1 29.124 43.124 + Tuberculosis 1 29.862 43.862 + Sodium 1 30.002 44.002 + Random\_cortisol 1 30.009 44.009 - Basal\_cortisol 1 34.954 44.954 - ACTH 1 38.973 48.973 - Lymphocyte\_count 1 39.971 49.971 - Stimulated\_cortisol 1 70.048 80.048 Start: AIC=156.72 Addisons\_disease ~ 1

Df Deviance AIC

* Stimulated\_cortisol 1 53.64 57.64
* Basal\_cortisol 1 101.51 105.51
* Random\_cortisol 1 117.01 121.01
* ACTH 1 148.47 152.47
* Tuberculosis 1 149.57 153.57
* Other 1 150.66 154.66
* BP\_diastolic 1 150.80 154.80 154.72 156.72
* Sodium 1 153.31 157.31
* Lymphocyte\_count 1 154.72 158.72

Step: AIC=57.64 Addisons\_disease ~ Stimulated\_cortisol

Df Deviance AIC

* ACTH 1 49.680 55.680
* BP\_diastolic 1 49.799 55.799
* Basal\_cortisol 1 50.048 56.048 53.640 57.640
* Tuberculosis 1 52.972 58.972
* Other 1 53.362 59.362
* Random\_cortisol 1 53.401 59.401
* Lymphocyte\_count 1 53.499 59.499
* Sodium 1 53.577 59.577
* Stimulated\_cortisol 1 154.718 156.718

Step: AIC=55.68 Addisons\_disease ~ Stimulated\_cortisol + ACTH

Df Deviance AIC

* Basal\_cortisol 1 44.137 52.137
* BP\_diastolic 1 45.912 53.912 49.680 55.680
* Random\_cortisol 1 47.889 55.889
* Tuberculosis 1 49.015 57.015
* Other 1 49.170 57.170
* ACTH 1 53.640 57.640
* Lymphocyte\_count 1 49.657 57.657
* Sodium 1 49.670 57.670
* Stimulated\_cortisol 1 148.472 152.472

Step: AIC=52.14 Addisons\_disease ~ Stimulated\_cortisol + ACTH + Basal\_cortisol

Df Deviance AIC

* BP\_diastolic 1 39.137 49.137 44.137 52.137
* Sodium 1 42.155 52.155
* Other 1 43.240 53.240
* Tuberculosis 1 43.279 53.279
* Random\_cortisol 1 43.683 53.683
* Lymphocyte\_count 1 44.005 54.005
* Basal\_cortisol 1 49.680 55.680
* ACTH 1 50.048 56.048
* Stimulated\_cortisol 1 86.457 92.457

Step: AIC=49.14 Addisons\_disease ~ Stimulated\_cortisol + ACTH + Basal\_cortisol + BP\_diastolic

Df Deviance AIC

39.137 49.137 + Sodium 1 38.438 50.438 + Random\_cortisol 1 38.835 50.835 + Tuberculosis 1 38.905 50.905 + Other 1 38.926 50.926 + Lymphocyte\_count 1 39.126 51.126 - BP\_diastolic 1 44.137 52.137 - ACTH 1 45.470 53.470 - Basal\_cortisol 1 45.912 53.912 - Stimulated\_cortisol 1 83.582 91.582 Start: AIC=156.72 Addisons\_disease ~ 1

Df Deviance AIC

* Stimulated\_cortisol 1 51.704 55.704
* Basal\_cortisol 1 100.183 104.183
* Random\_cortisol 1 117.011 121.011
* Lymphocyte\_count 1 142.791 146.791
* ACTH 1 148.472 152.472
* Tuberculosis 1 149.574 153.574
* Other 1 150.662 154.662
* BP\_diastolic 1 150.803 154.803 154.718 156.718
* Sodium 1 153.264 157.264

Step: AIC=55.7 Addisons\_disease ~ Stimulated\_cortisol

Df Deviance AIC

* BP\_diastolic 1 47.450 53.450
* ACTH 1 47.702 53.702
* Basal\_cortisol 1 49.574 55.574 51.704 55.704
* Lymphocyte\_count 1 50.534 56.534
* Tuberculosis 1 51.098 57.098
* Other 1 51.442 57.442
* Sodium 1 51.669 57.669
* Random\_cortisol 1 51.703 57.703
* Stimulated\_cortisol 1 154.718 156.718

Step: AIC=53.45 Addisons\_disease ~ Stimulated\_cortisol + BP\_diastolic

Df Deviance AIC

* ACTH 1 43.798 51.798
* Basal\_cortisol 1 44.832 52.832 47.450 53.450
* Lymphocyte\_count 1 46.493 54.493
* Tuberculosis 1 47.205 55.205
* Sodium 1 47.234 55.234
* Other 1 47.403 55.403
* Random\_cortisol 1 47.430 55.430
* BP\_diastolic 1 51.704 55.704
* Stimulated\_cortisol 1 150.803 154.803

Step: AIC=51.8 Addisons\_disease ~ Stimulated\_cortisol + BP\_diastolic + ACTH

Df Deviance AIC

* Basal\_cortisol 1 39.435 49.435 43.798 51.798
* Lymphocyte\_count 1 42.709 52.709
* Random\_cortisol 1 42.713 52.713
* ACTH 1 47.450 53.450
* Sodium 1 43.669 53.669
* BP\_diastolic 1 47.702 53.702
* Other 1 43.745 53.745
* Tuberculosis 1 43.770 53.770
* Stimulated\_cortisol 1 145.672 151.672

Step: AIC=49.44 Addisons\_disease ~ Stimulated\_cortisol + BP\_diastolic + ACTH + Basal\_cortisol

Df Deviance AIC

39.435 49.435 + Lymphocyte\_count 1 37.502 49.502 + Sodium 1 39.070 51.070 + Other 1 39.258 51.258 + Tuberculosis 1 39.270 51.270 + Random\_cortisol 1 39.407 51.407 - Basal\_cortisol 1 43.798 51.798 - BP\_diastolic 1 43.952 51.952 - ACTH 1 44.832 52.832 - Stimulated\_cortisol 1 85.330 93.330 Start: AIC=156.72 Addisons\_disease ~ 1

Df Deviance AIC

* Stimulated\_cortisol 1 53.716 57.716
* Basal\_cortisol 1 97.498 101.498
* Random\_cortisol 1 117.011 121.011
* Lymphocyte\_count 1 131.234 135.234
* ACTH 1 148.472 152.472
* Tuberculosis 1 149.574 153.574
* Other 1 150.662 154.662
* BP\_diastolic 1 150.803 154.803 154.718 156.718
* Sodium 1 153.260 157.260

Step: AIC=57.72 Addisons\_disease ~ Stimulated\_cortisol

Df Deviance AIC

* ACTH 1 47.948 53.948
* Lymphocyte\_count 1 49.019 55.019
* BP\_diastolic 1 49.228 55.228
* Basal\_cortisol 1 50.881 56.881 53.716 57.716
* Sodium 1 52.521 58.521
* Tuberculosis 1 52.560 58.560
* Other 1 53.284 59.284
* Random\_cortisol 1 53.644 59.644
* Stimulated\_cortisol 1 154.718 156.718

Step: AIC=53.95 Addisons\_disease ~ Stimulated\_cortisol + ACTH

Df Deviance AIC

* Basal\_cortisol 1 42.719 50.719
* Lymphocyte\_count 1 43.177 51.177
* BP\_diastolic 1 44.554 52.554 47.948 53.948
* Random\_cortisol 1 46.909 54.909
* Sodium 1 46.961 54.961
* Tuberculosis 1 47.114 55.114
* Other 1 47.428 55.428
* ACTH 1 53.716 57.716
* Stimulated\_cortisol 1 148.472 152.472

Step: AIC=50.72 Addisons\_disease ~ Stimulated\_cortisol + ACTH + Basal\_cortisol

Df Deviance AIC

* BP\_diastolic 1 38.142 48.142
* Lymphocyte\_count 1 39.518 49.518 42.719 50.719
* Tuberculosis 1 41.674 51.674
* Other 1 42.051 52.051
* Random\_cortisol 1 42.668 52.668
* Sodium 1 42.702 52.702
* Basal\_cortisol 1 47.948 53.948
* ACTH 1 50.881 56.881
* Stimulated\_cortisol 1 82.651 88.651

Step: AIC=48.14 Addisons\_disease ~ Stimulated\_cortisol + ACTH + Basal\_cortisol + BP\_diastolic

Df Deviance AIC

* Lymphocyte\_count 1 34.542 46.542 38.142 48.142
* Tuberculosis 1 37.876 49.876
* Other 1 38.015 50.015
* Sodium 1 38.036 50.036
* Random\_cortisol 1 38.094 50.094
* BP\_diastolic 1 42.719 50.719
* Basal\_cortisol 1 44.554 52.554
* ACTH 1 45.560 53.560
* Stimulated\_cortisol 1 80.474 88.474

Step: AIC=46.54 Addisons\_disease ~ Stimulated\_cortisol + ACTH + Basal\_cortisol + BP\_diastolic + Lymphocyte\_count

Df Deviance AIC

34.542 46.542 - Lymphocyte\_count 1 38.142 48.142 + Sodium 1 34.314 48.314 + Tuberculosis 1 34.435 48.435 + Other 1 34.489 48.489 + Random\_cortisol 1 34.542 48.542 - Basal\_cortisol 1 39.042 49.042 - BP\_diastolic 1 39.518 49.518 - ACTH 1 40.965 50.965 - Stimulated\_cortisol 1 67.746 77.746 votes ACTH Basal\_cortisol BP\_diastolic Lymphocyte\_count 5 4 5 3 Sodium Stimulated\_cortisol 1 5 term estimate std.error statistic df p.value 1 (Intercept) 6.68154492 2.106664862 3.171622 28.59381 0.0036034752 2 ACTH 0.01778813 0.010183603 1.746742 26.24639 0.0923765997 3 Stimulated\_cortisol -0.01758783 0.004199391 -4.188186 52.34032 0.0001082213 2.5 % 97.5 % 1 2.370271338 10.992818509 2 -0.003135004 0.038711267 3 -0.026013217 -0.009162438