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

Dr Joseph B Sempa

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# Baseline table

\*\*Baseline table\*\*

| Variable | **N = 549**1 |
| --- | --- |
| **Age at enrolment, median (IQR) (years)** | 36.0 (31.5, 43.0) |
| **Gender, n(%)** |  |
| Female | 280 (51.1%) |
| Male | 268 (48.9%) |
| **Ethnicity, n(%)** |  |
| Black African | 430 (78.3%) |
| Other | 119 (21.7%) |
| **Duration of current illness, median (IQR) (days)** | 14.0 (12.0, 21.0) |
| **Weight loss** | 452 (86.1%) |
| **log10 viral load** | 10.8 (7.3, 12.3) |
| **Tuberculosis** | 445 (84.3%) |
| **Cryptococcus neoformans** | 30 (5.7%) |
| **Pneumonia** | 62 (11.7%) |
| **Staph aureus** | 1 (0.2%) |
| **Kaposis sarcoma** | 6 (1.1%) |
| **Cytomegalovirus** | 1 (0.2%) |
| **HSV** | 8 (1.5%) |
| **HepB** | 18 (3.4%) |
| **Candida** | 29 (5.5%) |
| **GE/c diff** | 18 (3.4%) |
| **Parvo B19** | 1 (0.2%) |
| **Syphilis** | 17 (3.2%) |
| **B menigitis** | 5 (0.9%) |
| **UTI / Leptospirosis** | 7 (1.3%) |
| **PCP** | 4 (0.8%) |
| **COVID-19** | 2 (0.4%) |
| **Neurocysticercosis** | 2 (0.4%) |
| **Total CD4 count** | 33.5 (15.0, 62.0) |
| **White cell count X109** | 5.5 (3.7, 8.2) |
| **Lymphocyte count X109** | 0.8 (0.4, 1.9) |
| **Neutrophils** | 3.6 (1.5, 8.3) |
| **ART exposure** | 202 (36.8%) |
| **Kidney medication** | 51 (9.3%) |
| 1Median (IQR); n (%) | |

# Table 1

Table 1: gender

| Variable | **Female**, N = 2801 | **Male**, N = 2681 | **p-value**2 |
| --- | --- | --- | --- |
| **Age at enrolment, median (IQR) (years)** | 35.0 (31.0, 42.0) | 37.0 (32.0, 44.5) | 0.008 |
| **Ethnicity, n(%)** |  |  | 0.2 |
| Black African | 214 (76.4%) | 216 (80.6%) |  |
| Other | 66 (23.6%) | 52 (19.4%) |  |
| **Duration of current illness, median (IQR) (days)** | 14.0 (12.0, 21.0) | 14.0 (12.0, 21.0) | 0.5 |
| **Weight loss** | 233 (86.3%) | 218 (85.8%) | 0.9 |
| **log10 viral load** | 11.0 (7.4, 12.3) | 10.7 (7.1, 12.4) | 0.7 |
| **Tuberculosis** | 222 (82.2%) | 223 (86.8%) | 0.15 |
| **Cryptococcus neoformans** | 12 (4.4%) | 18 (7.0%) | 0.2 |
| **Pneumonia** | 30 (11.1%) | 32 (12.5%) | 0.6 |
| **Staph aureus** | 0 (0.0%) | 1 (0.4%) | 0.5 |
| **Kaposis sarcoma** | 4 (1.5%) | 2 (0.8%) | 0.7 |
| **Cytomegalovirus** | 0 (0.0%) | 1 (0.4%) | 0.5 |
| **HSV** | 4 (1.5%) | 4 (1.6%) | >0.9 |
| **HepB** | 7 (2.6%) | 11 (4.3%) | 0.3 |
| **Candida** | 17 (6.3%) | 12 (4.7%) | 0.4 |
| **GE/c diff** | 10 (3.7%) | 8 (3.1%) | 0.7 |
| **Parvo B19** | 1 (0.4%) | 0 (0.0%) | >0.9 |
| **Syphilis** | 8 (3.0%) | 9 (3.5%) | 0.7 |
| **B menigitis** | 4 (1.5%) | 1 (0.4%) | 0.4 |
| **UTI / Leptospirosis** | 1 (0.4%) | 6 (2.3%) | 0.063 |
| **PCP** | 2 (0.7%) | 2 (0.8%) | >0.9 |
| **COVID-19** | 1 (0.4%) | 1 (0.4%) | >0.9 |
| **Neurocysticercosis** | 0 (0.0%) | 2 (0.8%) | 0.2 |
| **Total CD4 count** | 34.0 (15.0, 59.0) | 33.0 (12.0, 64.3) | 0.8 |
| **White cell count X109** | 5.3 (3.6, 8.0) | 5.6 (3.8, 8.3) | 0.8 |
| **Lymphocyte count X109** | 0.9 (0.4, 2.7) | 0.8 (0.4, 1.4) | >0.9 |
| **Neutrophils** | 3.8 (1.6, 9.6) | 3.0 (1.3, 7.3) | 0.4 |
| **ART exposure** | 109 (38.9%) | 93 (34.7%) | 0.3 |
| **Kidney medication** | 18 (6.4%) | 33 (12.3%) | 0.018 |
| 1Median (IQR); n (%) | | | |
| 2Wilcoxon rank sum test; Pearson's Chi-squared test; Fisher's exact test | | | |

Table 2: age

| Variable | **(-Inf,30]**, N = 1191 | **(30,37]**, N = 1851 | **(37, Inf]**, N = 2421 | **p-value**2 |
| --- | --- | --- | --- | --- |
| **Gender, n(%)** |  |  |  | 0.089 |
| Female | 67 (56.3%) | 101 (54.6%) | 111 (45.9%) |  |
| Male | 52 (43.7%) | 84 (45.4%) | 131 (54.1%) |  |
| **Ethnicity, n(%)** |  |  |  | 0.4 |
| Black African | 96 (80.7%) | 149 (80.5%) | 184 (76.0%) |  |
| Other | 23 (19.3%) | 36 (19.5%) | 58 (24.0%) |  |
| **Duration of current illness, median (IQR) (days)** | 14.0 (12.0, 21.0) | 14.0 (11.5, 21.0) | 14.0 (13.0, 21.0) | 0.3 |
| **Weight loss** | 104 (88.9%) | 153 (86.0%) | 194 (84.7%) | 0.6 |
| **log10 viral load** | 9.4 (7.5, 12.3) | 10.5 (5.1, 12.0) | 11.0 (8.4, 12.7) | 0.4 |
| **Tuberculosis** | 96 (82.8%) | 155 (87.1%) | 194 (83.6%) | 0.5 |
| **Cryptococcus neoformans** | 3 (2.6%) | 11 (6.2%) | 16 (6.9%) | 0.2 |
| **Pneumonia** | 18 (15.5%) | 25 (14.0%) | 19 (8.2%) | 0.070 |
| **Staph aureus** | 1 (0.9%) | 0 (0.0%) | 0 (0.0%) | 0.2 |
| **Kaposis sarcoma** | 3 (2.6%) | 3 (1.7%) | 0 (0.0%) | 0.035 |
| **Cytomegalovirus** | 0 (0.0%) | 0 (0.0%) | 1 (0.4%) | >0.9 |
| **HSV** | 2 (1.7%) | 1 (0.6%) | 5 (2.2%) | 0.5 |
| **HepB** | 5 (4.3%) | 2 (1.1%) | 11 (4.7%) | 0.094 |
| **Candida** | 5 (4.3%) | 10 (5.6%) | 14 (6.0%) | 0.8 |
| **GE/c diff** | 6 (5.2%) | 6 (3.4%) | 6 (2.6%) | 0.4 |
| **Parvo B19** | 0 (0.0%) | 1 (0.6%) | 0 (0.0%) | 0.6 |
| **Syphilis** | 2 (1.7%) | 6 (3.4%) | 9 (3.9%) | 0.6 |
| **B menigitis** | 1 (0.9%) | 3 (1.7%) | 1 (0.4%) | 0.5 |
| **UTI / Leptospirosis** | 2 (1.7%) | 3 (1.7%) | 2 (0.9%) | 0.7 |
| **PCP** | 0 (0.0%) | 1 (0.6%) | 3 (1.3%) | 0.6 |
| **COVID-19** | 0 (0.0%) | 1 (0.6%) | 1 (0.4%) | >0.9 |
| **Neurocysticercosis** | 1 (0.9%) | 0 (0.0%) | 1 (0.4%) | 0.7 |
| **Total CD4 count** | 28.0 (10.0, 55.0) | 32.0 (13.0, 64.0) | 39.0 (18.0, 65.0) | 0.031 |
| **White cell count X109** | 6.1 (3.9, 9.0) | 5.1 (3.5, 7.7) | 5.5 (3.9, 8.0) | 0.4 |
| **Lymphocyte count X109** | 1.9 (0.4, 11.9) | 0.9 (0.4, 1.7) | 0.7 (0.4, 1.3) | 0.062 |
| **Neutrophils** | 5.4 (1.6, 26.0) | 4.3 (2.3, 8.7) | 2.6 (1.2, 5.7) | 0.046 |
| **ART exposure** | 41 (34.5%) | 72 (38.9%) | 89 (36.8%) | 0.7 |
| **Kidney medication** | 14 (11.8%) | 15 (8.1%) | 22 (9.1%) | 0.6 |
| 1n (%); Median (IQR) | | | | |
| 2Pearson's Chi-squared test; Kruskal-Wallis rank sum test; Fisher's exact test | | | | |

# Table 1.2

Table 3: Patient presentation by CD4 count category

| Variable | **Overall**, N = 5311 | **0 - 33**, N = 2711 | **33 - 66**, N = 1441 | **67 - 100**, N = 1161 | **p-value**2 |
| --- | --- | --- | --- | --- | --- |
| **Age at enrolment, median (IQR) (years)** | 36.0 (32.0, 43.0) | 35.0 (30.5, 42.0) | 37.0 (32.0, 44.0) | 38.0 (33.0, 46.0) | 0.007 |
| **Gender, n(%)** |  |  |  |  | 0.4 |
| Female | 268 (50.6%) | 137 (50.6%) | 78 (54.2%) | 53 (46.1%) |  |
| Male | 262 (49.4%) | 134 (49.4%) | 66 (45.8%) | 62 (53.9%) |  |
| **Ethnicity, n(%)** |  |  |  |  | 0.4 |
| Black African | 420 (79.1%) | 220 (81.2%) | 113 (78.5%) | 87 (75.0%) |  |
| Other | 111 (20.9%) | 51 (18.8%) | 31 (21.5%) | 29 (25.0%) |  |
| **Duration of current illness, median (IQR) (days)** | 14.0 (12.0, 21.0) | 14.0 (14.0, 21.0) | 14.0 (12.5, 22.5) | 14.0 (7.0, 21.0) | 0.032 |
| **Weight loss** | 443 (86.5%) | 231 (87.5%) | 122 (87.1%) | 90 (83.3%) | 0.5 |
| **log10 viral load** | 11.0 (7.3, 12.4) | 11.6 (9.3, 12.8) | 9.0 (6.8, 12.3) | 7.0 (3.9, 10.9) | <0.001 |
| **Tuberculosis** | 433 (84.7%) | 224 (85.2%) | 121 (85.8%) | 88 (82.2%) | 0.7 |
| **Cryptococcus neoformans** | 29 (5.7%) | 16 (6.1%) | 4 (2.8%) | 9 (8.4%) | 0.2 |
| **Pneumonia** | 61 (11.9%) | 30 (11.4%) | 18 (12.8%) | 13 (12.1%) | >0.9 |
| **Staph aureus** | 1 (0.2%) | 1 (0.4%) | 0 (0.0%) | 0 (0.0%) | >0.9 |
| **Kaposis sarcoma** | 6 (1.2%) | 6 (2.3%) | 0 (0.0%) | 0 (0.0%) | 0.052 |
| **Cytomegalovirus** | 1 (0.2%) | 0 (0.0%) | 1 (0.7%) | 0 (0.0%) | 0.5 |
| **HSV** | 8 (1.6%) | 3 (1.1%) | 4 (2.8%) | 1 (0.9%) | 0.4 |
| **HepB** | 18 (3.5%) | 9 (3.4%) | 8 (5.7%) | 1 (0.9%) | 0.13 |
| **Candida** | 28 (5.5%) | 18 (6.8%) | 10 (7.1%) | 0 (0.0%) | 0.020 |
| **GE/c diff** | 18 (3.5%) | 10 (3.8%) | 6 (4.3%) | 2 (1.9%) | 0.6 |
| **Parvo B19** | 1 (0.2%) | 0 (0.0%) | 1 (0.7%) | 0 (0.0%) | 0.5 |
| **Syphilis** | 16 (3.1%) | 8 (3.0%) | 7 (5.0%) | 1 (0.9%) | 0.2 |
| **B menigitis** | 5 (1.0%) | 3 (1.1%) | 1 (0.7%) | 1 (0.9%) | >0.9 |
| **UTI / Leptospirosis** | 7 (1.4%) | 4 (1.5%) | 0 (0.0%) | 3 (2.8%) | 0.12 |
| **PCP** | 4 (0.8%) | 3 (1.1%) | 1 (0.7%) | 0 (0.0%) | 0.8 |
| **COVID-19** | 2 (0.4%) | 1 (0.4%) | 1 (0.7%) | 0 (0.0%) | >0.9 |
| **Neurocysticercosis** | 2 (0.4%) | 1 (0.4%) | 1 (0.7%) | 0 (0.0%) | >0.9 |
| **White cell count X109** | 5.6 (3.7, 8.2) | 5.0 (2.9, 7.4) | 5.8 (4.2, 8.4) | 6.9 (4.6, 9.7) | <0.001 |
| **Lymphocyte count X109** | 0.8 (0.4, 1.9) | 0.6 (0.3, 1.3) | 1.2 (0.5, 6.6) | 1.2 (0.7, 2.6) | 0.011 |
| **Neutrophils** | 3.2 (1.5, 7.6) | 2.4 (1.0, 5.9) | 5.9 (2.5, 11.5) | 4.8 (2.8, 8.4) | 0.009 |
| **ART exposure** | 197 (37.1%) | 100 (36.9%) | 59 (41.0%) | 38 (32.8%) | 0.4 |
| **Kidney medication** | 51 (9.6%) | 27 (10.0%) | 16 (11.1%) | 8 (6.9%) | 0.5 |
| 1Median (IQR); n (%) | | | | | |
| 2Kruskal-Wallis rank sum test; Pearson's Chi-squared test; Fisher's exact test | | | | | |

# A tibble: 4 × 16

Group .y. group1 group2 n1 n2 statistic df p p.adj 1 Random cort… resu… AI No-AI 27 407 -8.91 38.2 7.17e-11 2.87e-10 2 Basal corti… resu… AI No-AI 27 124 -6.51 58.6 1.88e- 8 7.52e- 8 3 Stimulated … resu… AI No-AI 27 121 -14.5 61.7 1.36e-21 5.44e-21 4 ACTH resu… AI No-AI 27 407 1.34 26.9 1.92e- 1 7.68e- 1 # ℹ 6 more variables: p.adj.signif , y.position , # groups , x , xmin , xmax png 2 # A tibble: 2 × 16 Group .y. group1 group2 n1 n2 statistic df p p.adj p.adj.signif   
1 ART … CD4 … No Yes 340 202 0.362 444. 0.717 1 ns  
2 Kidn… CD4 … No Yes 491 51 0.592 60.9 0.556 1 ns  
# ℹ 5 more variables: y.position , groups , x , # xmin , xmax png 2

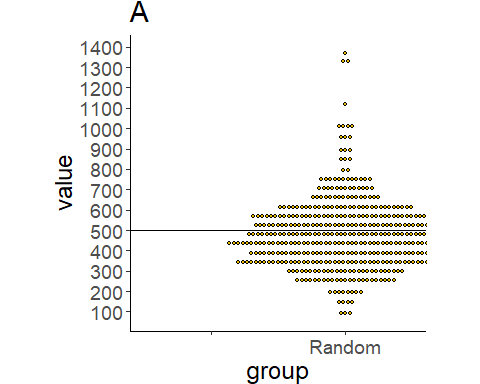
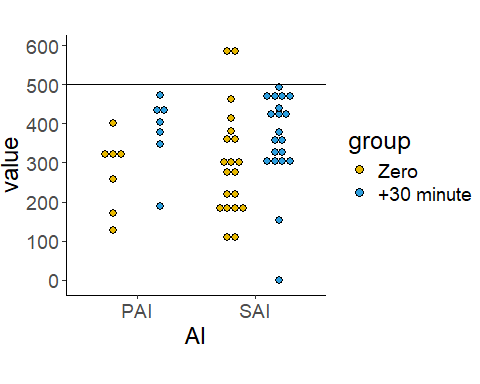
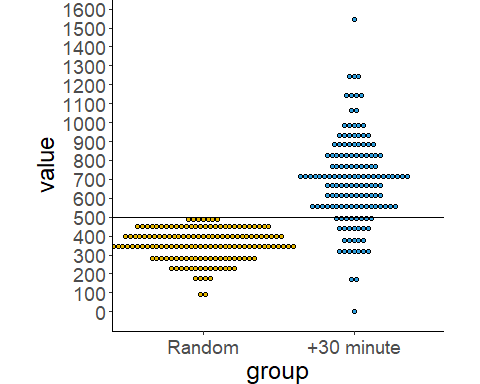
# Table 2: comparing Addisons status with other variables

Table 2: Should compare Total AI with Non-AI patients

|  | **Non-AI vs AI** | | | **PAI vs SAI patients** | | |
| --- | --- | --- | --- | --- | --- | --- |
| Variable | **AI**, N = 271 | **no-AI**, N = 5221 | **p-value**2 | **PAI**, N = 71 | **SAI**, N = 201 | **p-value**3 |
| **Age at enrolment, median (IQR) (years)** | 36.0 (32.0, 47.5) | 36.0 (31.8, 43.0) | 0.4 | 40.0 (35.0, 45.0) | 36.0 (32.0, 48.5) | 0.6 |
| **Gender, n(%)** |  |  | >0.9 |  |  | 0.7 |
| Female | 14 (51.9%) | 266 (51.1%) |  | 3 (42.9%) | 11 (55.0%) |  |
| Male | 13 (48.1%) | 255 (48.9%) |  | 4 (57.1%) | 9 (45.0%) |  |
| **Ethnicity, n(%)** |  |  | 0.4 |  |  | >0.9 |
| Black African | 23 (85.2%) | 407 (78.0%) |  | 6 (85.7%) | 17 (85.0%) |  |
| Other | 4 (14.8%) | 115 (22.0%) |  | 1 (14.3%) | 3 (15.0%) |  |
| **Duration of current illness, median (IQR) (days)** | 14.0 (14.0, 27.8) | 14.0 (11.8, 21.0) | 0.4 | 10.0 (7.0, 12.5) | 21.0 (14.0, 30.0) | 0.019 |
| **Weight loss** | 22 (81.5%) | 430 (86.3%) | 0.4 | 7 (100.0%) | 15 (75.0%) | 0.3 |
| **Viral load (log10 Copies/mL)** | 11.0 (10.7, 11.3) | 10.8 (7.1, 12.3) | 0.9 | 11.6 (11.6, 11.6) | 10.5 (10.5, 10.5) | >0.9 |
| **Tuberculosis** | 21 (77.8%) | 424 (84.6%) | 0.4 | 5 (71.4%) | 16 (80.0%) | 0.6 |
| **Cryptococcus neoformans** | 10 (37.0%) | 20 (4.0%) | <0.001 | 3 (42.9%) | 7 (35.0%) | >0.9 |
| **Pneumonia** | 3 (11.1%) | 59 (11.8%) | >0.9 | 0 (0.0%) | 3 (15.0%) | 0.5 |
| **Staph aureus** | 1 (3.7%) | 0 (0.0%) | 0.051 | 0 (0.0%) | 1 (5.0%) | >0.9 |
| **Kaposis sarcoma** | 1 (3.7%) | 5 (1.0%) | 0.3 | 0 (0.0%) | 1 (5.0%) | >0.9 |
| **Cytomegalovirus** | 1 (3.7%) | 0 (0.0%) | 0.051 | 0 (0.0%) | 1 (5.0%) | >0.9 |
| **HSV** | 1 (3.7%) | 7 (1.4%) | 0.3 | 0 (0.0%) | 1 (5.0%) | >0.9 |
| **HepB** | 2 (7.4%) | 16 (3.2%) | 0.2 | 0 (0.0%) | 2 (10.0%) | >0.9 |
| **Candida** | 1 (3.7%) | 28 (5.6%) | >0.9 | 0 (0.0%) | 1 (5.0%) | >0.9 |
| **GE/c diff** | 0 (0.0%) | 18 (3.6%) | 0.6 | 0 (0.0%) | 0 (0.0%) |  |
| **Parvo B19** | 1 (3.7%) | 0 (0.0%) | 0.051 | 1 (14.3%) | 0 (0.0%) | 0.3 |
| **Syphilis** | 0 (0.0%) | 17 (3.4%) | >0.9 | 0 (0.0%) | 0 (0.0%) |  |
| **B menigitis** | 0 (0.0%) | 5 (1.0%) | >0.9 | 0 (0.0%) | 0 (0.0%) |  |
| **UTI / Leptospirosis** | 0 (0.0%) | 7 (1.4%) | >0.9 | 0 (0.0%) | 0 (0.0%) |  |
| **PCP** | 0 (0.0%) | 4 (0.8%) | >0.9 | 0 (0.0%) | 0 (0.0%) |  |
| **COVID-19** | 0 (0.0%) | 2 (0.4%) | >0.9 | 0 (0.0%) | 0 (0.0%) |  |
| **Neurocysticercosis** | 0 (0.0%) | 2 (0.4%) | >0.9 | 0 (0.0%) | 0 (0.0%) |  |
| **Total CD4 count** | 28.0 (13.5, 49.5) | 34.0 (15.0, 63.0) | 0.4 | 46.0 (25.5, 61.0) | 19.0 (10.0, 48.8) | 0.2 |
| **White cell count X109** | 5.2 (2.8, 8.9) | 5.6 (3.8, 8.1) | 0.5 | 3.5 (3.0, 5.5) | 5.3 (2.8, 11.9) | 0.4 |
| **Lymphocyte count X109** | 0.9 (0.5, 1.2) | 0.8 (0.4, 2.0) | 0.7 | 1.3 (1.3, 1.3) | 0.7 (0.5, 1.0) | 0.6 |
| **Neutrophils** | 1.3 (0.9, 1.6) | 3.8 (1.6, 8.9) | 0.037 | 0.9 (0.9, 0.9) | 1.5 (1.0, 1.7) | 0.7 |
| **Sodium mmol/L** | 135.0 (133.0, 137.5) | 133.0 (130.0, 137.0) | 0.033 | 133.0 (131.5, 136.5) | 135.5 (134.0, 137.3) | 0.2 |
| **Potassium mmol/L** | 3.9 (3.3, 4.3) | 4.1 (3.6, 4.6) | 0.069 | 3.6 (3.3, 3.9) | 4.0 (3.3, 4.5) | 0.4 |
| **Haemoglobin g/dL** | 8.7 (7.6, 10.4) | 8.7 (7.4, 10.3) | 0.6 | 10.2 (7.9, 10.3) | 8.7 (7.6, 10.7) | 0.7 |
| **BP (systolic)** | 120.0 (102.5, 128.5) | 111.0 (102.0, 125.0) | 0.4 | 120.0 (120.0, 123.5) | 118.0 (99.5, 129.3) | 0.7 |
| **BP (diastolic)** | 71.0 (66.5, 80.0) | 70.0 (60.0, 79.0) | 0.080 | 70.0 (70.0, 82.0) | 72.0 (60.0, 80.0) | 0.8 |
| **Heart rate** | 87.0 (78.5, 107.0) | 91.0 (79.0, 108.8) | 0.7 | 97.0 (88.0, 111.0) | 85.0 (76.8, 102.3) | 0.10 |
| **Hypotension** | 1 (3.7%) | 46 (9.3%) | 0.5 | 0 (0.0%) | 1 (5.0%) | >0.9 |
| **Weakness** | 21 (77.8%) | 422 (85.1%) | 0.3 | 4 (57.1%) | 17 (85.0%) | 0.3 |
| **Tiredness** | 23 (85.2%) | 423 (85.1%) | >0.9 | 5 (71.4%) | 18 (90.0%) | 0.3 |
| **Poor appetite** | 22 (81.5%) | 374 (75.9%) | 0.5 | 6 (85.7%) | 16 (80.0%) | >0.9 |
| **Increased pigmentation of the skin** | 9 (37.5%) | 247 (50.8%) | 0.2 | 3 (60.0%) | 6 (31.6%) | 0.3 |
| **Nausea** | 16 (59.3%) | 263 (53.0%) | 0.5 | 5 (71.4%) | 11 (55.0%) | 0.7 |
| **Vomiting** | 8 (29.6%) | 137 (27.7%) | 0.8 | 4 (57.1%) | 4 (20.0%) | 0.14 |
| **Liking for salt** | 19 (70.4%) | 262 (53.0%) | 0.078 | 5 (71.4%) | 14 (70.0%) | >0.9 |
| **Hypoglycaemia** | 0 (0.0%) | 11 (2.2%) | >0.9 | 0 (0.0%) | 0 (0.0%) |  |
| **Loss of consciousness** | 0 (0.0%) | 7 (1.4%) | >0.9 | 0 (0.0%) | 0 (0.0%) |  |
| **Diarrhoea** | 8 (29.6%) | 219 (44.5%) | 0.13 | 1 (14.3%) | 7 (35.0%) | 0.6 |
| **Dizziness** | 13 (50.0%) | 236 (47.8%) | 0.8 | 4 (66.7%) | 9 (45.0%) | 0.6 |
| **Shock** | 0 (0.0%) | 5 (1.0%) | >0.9 | 0 (0.0%) | 0 (0.0%) |  |
| **Anorexia** | 8 (29.6%) | 234 (47.3%) | 0.073 | 4 (57.1%) | 4 (20.0%) | 0.14 |
| **Loss of axillary and pubic hair, if female** |  |  | 0.5 |  |  | 0.8 |
| No | 11 (40.7%) | 159 (31.7%) |  | 2 (28.6%) | 9 (45.0%) |  |
| Not applicable | 13 (48.1%) | 248 (49.4%) |  | 4 (57.1%) | 9 (45.0%) |  |
| Yes | 3 (11.1%) | 95 (18.9%) |  | 1 (14.3%) | 2 (10.0%) |  |
| **Any postural drop in blood pressure** | 2 (7.4%) | 21 (4.3%) | 0.3 | 0 (0.0%) | 2 (10.0%) | >0.9 |
| **Presence of anaemia** | 13 (50.0%) | 290 (58.8%) | 0.4 | 4 (57.1%) | 9 (47.4%) | >0.9 |
| **mortality** | 6 (50.0%) | 60 (43.5%) | 0.7 | 2 (66.7%) | 4 (44.4%) | >0.9 |
| **ART exposure** | 6 (22.2%) | 196 (37.5%) | 0.11 | 2 (28.6%) | 4 (20.0%) | 0.6 |
| **Kidney medication** | 5 (18.5%) | 46 (8.8%) | 0.095 | 2 (28.6%) | 3 (15.0%) | 0.6 |
| 1Median (IQR); n (%) | | | | | | |
| 2Wilcoxon rank sum test; Pearson's Chi-squared test; Fisher's exact test | | | | | | |
| 3Wilcoxon rank sum test; Fisher's exact test; Wilcoxon rank sum exact test | | | | | | |

# Table 2.2: Cause of moratlity

# Dotplot

png 2 png 2 png 2

# Table 3: Bivariate table

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

Mortality: Non-AI vs AI

| Variable | **1**, N = 601 | **2**, N = 61 | **p-value**2 |
| --- | --- | --- | --- |
| **Age at enrolment, median (IQR) (years)** | 38 (33, 44) | 41 (33, 46) | 0.6 |
| **Gender, n(%)** |  |  | >0.9 |
| Female | 32 (53.3%) | 3 (50.0%) |  |
| Male | 28 (46.7%) | 3 (50.0%) |  |
| **Ethnicity, n(%)** |  |  | 0.2 |
| Black African | 52 (86.7%) | 4 (66.7%) |  |
| Other | 8 (13.3%) | 2 (33.3%) |  |
| **Duration of current illness, median (IQR) (days)** | 14 (14, 21) | 14 (11, 14) | 0.079 |
| **Weight loss** | 51 (87.9%) | 4 (66.7%) | 0.2 |
| **Viral load (log10 Copies/mL)** | 11.74 (9.55, 13.08) | NA (NA, NA) |  |
| **Tuberculosis** | 49 (81.7%) | 5 (83.3%) | >0.9 |
| **Cryptococcus neoformans** | 3 (5.0%) | 3 (50.0%) | 0.008 |
| **Pneumonia** | 7 (11.7%) | 0 (0.0%) | >0.9 |
| **Staph aureus** | 0 (0.0%) | 0 (0.0%) |  |
| **Kaposis sarcoma** | 0 (0.0%) | 0 (0.0%) |  |
| **Cytomegalovirus** | 0 (0.0%) | 0 (0.0%) |  |
| **HSV** | 1 (1.7%) | 0 (0.0%) | >0.9 |
| **HepB** | 0 (0.0%) | 1 (16.7%) | 0.091 |
| **Candida** | 4 (6.7%) | 0 (0.0%) | >0.9 |
| **GE/c diff** | 0 (0.0%) | 0 (0.0%) |  |
| **Parvo B19** | 0 (0.0%) | 0 (0.0%) |  |
| **Syphilis** | 3 (5.0%) | 0 (0.0%) | >0.9 |
| **B menigitis** | 1 (1.7%) | 0 (0.0%) | >0.9 |
| **UTI / Leptospirosis** | 1 (1.7%) | 0 (0.0%) | >0.9 |
| **PCP** | 2 (3.3%) | 0 (0.0%) | >0.9 |
| **COVID-19** | 0 (0.0%) | 0 (0.0%) |  |
| **Neurocysticercosis** | 0 (0.0%) | 0 (0.0%) |  |
| **Total CD4 count** | 28 (14, 55) | 30 (16, 45) | 0.7 |
| **White cell count X109** | 5.2 (3.4, 7.4) | 8.3 (4.3, 27.5) | 0.2 |
| **Lymphocyte count X109** | 0.84 (0.41, 1.22) | NA (NA, NA) |  |
| **Neutrophils** | 2 (1, 5) | NA (NA, NA) |  |
| **Sodium mmol/L** | 133.0 (128.0, 136.0) | 136.5 (133.3, 139.0) | 0.15 |
| **Potassium mmol/L** | 3.95 (3.60, 4.57) | 3.70 (3.37, 3.88) | 0.077 |
| **Haemoglobin g/dL** | 8.20 (7.00, 9.63) | 9.60 (8.25, 10.95) | 0.3 |
| **BP (systolic)** | 110 (102, 120) | 128 (122, 130) | 0.059 |
| **BP (diastolic)** | 71 (67, 80) | 74 (65, 78) | 0.8 |
| **Heart rate** | 91 (82, 108) | 87 (72, 98) | 0.3 |
| **Hypotension** | 7 (12.1%) | 0 (0.0%) | >0.9 |
| **Weakness** | 54 (93.1%) | 4 (66.7%) | 0.093 |
| **Tiredness** | 53 (93.0%) | 6 (100.0%) | >0.9 |
| **Poor appetite** | 51 (87.9%) | 6 (100.0%) | >0.9 |
| **Increased pigmentation of the skin** | 36 (63.2%) | 2 (40.0%) | 0.4 |
| **Nausea** | 37 (63.8%) | 5 (83.3%) | 0.7 |
| **Vomiting** | 15 (25.9%) | 2 (33.3%) | 0.7 |
| **Liking for salt** | 38 (65.5%) | 4 (66.7%) | >0.9 |
| **Hypoglycaemia** | 2 (3.4%) | 0 (0.0%) | >0.9 |
| **Loss of consciousness** | 2 (3.4%) | 0 (0.0%) | >0.9 |
| **Diarrhoea** | 33 (56.9%) | 1 (16.7%) | 0.090 |
| **Dizziness** | 34 (59.6%) | 3 (50.0%) | 0.7 |
| **Shock** | 2 (3.4%) | 0 (0.0%) | >0.9 |
| **Anorexia** | 35 (60.3%) | 2 (33.3%) | 0.2 |
| **Loss of axillary and pubic hair, if female** |  |  | 0.8 |
| No | 12 (21.1%) | 2 (33.3%) |  |
| Not applicable | 26 (45.6%) | 3 (50.0%) |  |
| Yes | 19 (33.3%) | 1 (16.7%) |  |
| **Any postural drop in blood pressure** | 4 (7.0%) | 0 (0.0%) | >0.9 |
| **Presence of anaemia** | 38 (65.5%) | 3 (50.0%) | 0.7 |
| **ART exposure** | 26 (43.3%) | 1 (16.7%) | 0.4 |
| **Kidney medication** | 10 (16.7%) | 1 (16.7%) | >0.9 |
| 1Median (IQR); n (%) | | | |
| 2Wilcoxon rank sum test; Fisher's exact test | | | |

Table 2.2.1: Mortality; PAI SAI

| Variable | **PAI**, N = 21 | **SAI**, N = 41 | **p-value**2 |
| --- | --- | --- | --- |
| **mortality with Addisons disease** |  |  |  |
| Die | 2 (100.0%) | 4 (100.0%) |  |
| **Age at enrolment median (IQR) (years)** |  |  | >0.9 |
| 29 | 0 (0.0%) | 1 (25.0%) |  |
| 31 | 1 (50.0%) | 0 (0.0%) |  |
| 40 | 1 (50.0%) | 0 (0.0%) |  |
| 41 | 0 (0.0%) | 1 (25.0%) |  |
| 48 | 0 (0.0%) | 1 (25.0%) |  |
| 50 | 0 (0.0%) | 1 (25.0%) |  |
| **Gender, n(%)** |  |  | >0.9 |
| Female | 1 (50.0%) | 2 (50.0%) |  |
| Male | 1 (50.0%) | 2 (50.0%) |  |
| **Ethnicity, n(%)** |  |  | 0.5 |
| Black African | 2 (100.0%) | 2 (50.0%) |  |
| Other | 0 (0.0%) | 2 (50.0%) |  |
| **Duration of current illness, median (IQR) (days)** |  |  | >0.9 |
| 4 | 1 (50.0%) | 0 (0.0%) |  |
| 7 | 0 (0.0%) | 1 (25.0%) |  |
| 9 | 0 (0.0%) | 1 (25.0%) |  |
| 236 | 1 (50.0%) | 0 (0.0%) |  |
| 5528 | 0 (0.0%) | 1 (25.0%) |  |
| 7754 | 0 (0.0%) | 1 (25.0%) |  |
| **Random cortisol** |  |  | >0.9 |
| 251 | 0 (0.0%) | 1 (25.0%) |  |
| 255 | 0 (0.0%) | 1 (25.0%) |  |
| 281 | 1 (50.0%) | 0 (0.0%) |  |
| 332 | 0 (0.0%) | 1 (25.0%) |  |
| 337 | 0 (0.0%) | 1 (25.0%) |  |
| 404 | 1 (50.0%) | 0 (0.0%) |  |
| **Basal cortisol** |  |  | >0.9 |
| 192 | 0 (0.0%) | 1 (25.0%) |  |
| 228 | 0 (0.0%) | 1 (25.0%) |  |
| 301 | 0 (0.0%) | 1 (25.0%) |  |
| 315 | 1 (50.0%) | 0 (0.0%) |  |
| 381 | 0 (0.0%) | 1 (25.0%) |  |
| 400 | 1 (50.0%) | 0 (0.0%) |  |
| **Stimulated cortisol** |  |  | >0.9 |
| 316 | 0 (0.0%) | 1 (25.0%) |  |
| 335 | 0 (0.0%) | 1 (25.0%) |  |
| 347 | 1 (50.0%) | 0 (0.0%) |  |
| 403 | 1 (50.0%) | 0 (0.0%) |  |
| 431 | 0 (0.0%) | 1 (25.0%) |  |
| 438 | 0 (0.0%) | 1 (25.0%) |  |
| **ACTH** |  |  | >0.9 |
| 7.40000009536743 | 0 (0.0%) | 1 (25.0%) |  |
| 22 | 0 (0.0%) | 1 (25.0%) |  |
| 36.9000015258789 | 0 (0.0%) | 1 (25.0%) |  |
| 47.9000015258789 | 0 (0.0%) | 1 (25.0%) |  |
| 87.6999969482422 | 1 (50.0%) | 0 (0.0%) |  |
| 312.600006103516 | 1 (50.0%) | 0 (0.0%) |  |
| **BP (systolic)** |  |  | >0.9 |
| 100 | 0 (0.0%) | 1 (25.0%) |  |
| 120 | 1 (50.0%) | 0 (0.0%) |  |
| 127 | 1 (50.0%) | 0 (0.0%) |  |
| 128 | 0 (0.0%) | 1 (25.0%) |  |
| 130 | 0 (0.0%) | 1 (25.0%) |  |
| 140 | 0 (0.0%) | 1 (25.0%) |  |
| **BP (diastolic)** |  |  | >0.9 |
| 55 | 0 (0.0%) | 1 (25.0%) |  |
| 63 | 1 (50.0%) | 0 (0.0%) |  |
| 71 | 0 (0.0%) | 1 (25.0%) |  |
| 76 | 0 (0.0%) | 1 (25.0%) |  |
| 79 | 1 (50.0%) | 0 (0.0%) |  |
| 80 | 0 (0.0%) | 1 (25.0%) |  |
| **Heart rate** |  |  | >0.9 |
| 65 | 0 (0.0%) | 1 (25.0%) |  |
| 68 | 0 (0.0%) | 1 (25.0%) |  |
| 82 | 0 (0.0%) | 1 (25.0%) |  |
| 92 | 1 (50.0%) | 0 (0.0%) |  |
| 100 | 0 (0.0%) | 1 (25.0%) |  |
| 105 | 1 (50.0%) | 0 (0.0%) |  |
| **Hypotension** | 0 (0.0%) | 0 (0.0%) |  |
| **Weakness** | 1 (50.0%) | 3 (75.0%) | >0.9 |
| **Tiredness** | 2 (100.0%) | 4 (100.0%) |  |
| **Poor appetite** | 2 (100.0%) | 4 (100.0%) |  |
| **Weight loss** | 2 (100.0%) | 2 (50.0%) | 0.5 |
| **Increased pigmentation of the skin** | 2 (100.0%) | 0 (0.0%) | 0.10 |
| **Nausea** | 2 (100.0%) | 3 (75.0%) | >0.9 |
| **Vomiting** | 2 (100.0%) | 0 (0.0%) | 0.067 |
| **Liking for salt** | 1 (50.0%) | 3 (75.0%) | >0.9 |
| **Hypoglycaemia** | 0 (0.0%) | 0 (0.0%) |  |
| **Loss of consciousness** | 0 (0.0%) | 0 (0.0%) |  |
| **Diarrhoea** | 0 (0.0%) | 1 (25.0%) | >0.9 |
| **Dizziness** | 2 (100.0%) | 1 (25.0%) | 0.4 |
| **Shock** | 0 (0.0%) | 0 (0.0%) |  |
| **Anorexia** | 2 (100.0%) | 0 (0.0%) | 0.067 |
| **Loss of axillary and pubic hair, if female** |  |  | 0.6 |
| No | 0 (0.0%) | 2 (50.0%) |  |
| Not applicable | 1 (50.0%) | 2 (50.0%) |  |
| Yes | 1 (50.0%) | 0 (0.0%) |  |
| **Any postural drop in blood pressure** | 0 (0.0%) | 0 (0.0%) |  |
| **Presence of anaemia** | 2 (100.0%) | 1 (25.0%) | 0.4 |
| **Tuberculosis** | 2 (100.0%) | 3 (75.0%) | >0.9 |
| **Cryptococcus neoformans** | 1 (50.0%) | 2 (50.0%) | >0.9 |
| **Pneumonia** | 0 (0.0%) | 0 (0.0%) |  |
| **Staph aureus** | 0 (0.0%) | 0 (0.0%) |  |
| **Kaposis sarcoma** | 0 (0.0%) | 0 (0.0%) |  |
| **Cytomegalovirus** | 0 (0.0%) | 0 (0.0%) |  |
| **HSV** | 0 (0.0%) | 0 (0.0%) |  |
| **HepB** | 0 (0.0%) | 1 (25.0%) | >0.9 |
| **Candida** | 0 (0.0%) | 0 (0.0%) |  |
| **GE/c diff** | 0 (0.0%) | 0 (0.0%) |  |
| **Parvo B19** | 0 (0.0%) | 0 (0.0%) |  |
| **Syphilis** | 0 (0.0%) | 0 (0.0%) |  |
| **B menigitis** | 0 (0.0%) | 0 (0.0%) |  |
| **UTI / Leptospirosis** | 0 (0.0%) | 0 (0.0%) |  |
| **PCP** | 0 (0.0%) | 0 (0.0%) |  |
| **COVID-19** | 0 (0.0%) | 0 (0.0%) |  |
| **Neurocysticercosis** | 0 (0.0%) | 0 (0.0%) |  |
| **Viral load (log10 Copies/mL)** | NA (NA, NA) | NA (NA, NA) |  |
| **Total CD4 count** |  |  | >0.9 |
| 13 | 0 (0.0%) | 1 (25.0%) |  |
| 15 | 1 (50.0%) | 0 (0.0%) |  |
| 17 | 0 (0.0%) | 1 (25.0%) |  |
| 43 | 0 (0.0%) | 1 (25.0%) |  |
| 46 | 1 (50.0%) | 0 (0.0%) |  |
| 98 | 0 (0.0%) | 1 (25.0%) |  |
| **Sodium mmol/L** |  |  | >0.9 |
| 131 | 0 (0.0%) | 1 (25.0%) |  |
| 133 | 0 (0.0%) | 1 (25.0%) |  |
| 134 | 1 (50.0%) | 0 (0.0%) |  |
| 139 | 1 (50.0%) | 1 (25.0%) |  |
| 141 | 0 (0.0%) | 1 (25.0%) |  |
| **Potassium mmol/L** |  |  | >0.9 |
| 2.79999995231628 | 0 (0.0%) | 1 (25.0%) |  |
| 3.29999995231628 | 1 (50.0%) | 0 (0.0%) |  |
| 3.59999990463257 | 1 (50.0%) | 0 (0.0%) |  |
| 3.79999995231628 | 0 (0.0%) | 1 (25.0%) |  |
| 3.90000009536743 | 0 (0.0%) | 1 (25.0%) |  |
| 4 | 0 (0.0%) | 1 (25.0%) |  |
| **Haemoglobin g/dL** |  |  | >0.9 |
| 5.80000019073486 | 0 (0.0%) | 1 (25.0%) |  |
| 8.10000038146973 | 1 (50.0%) | 0 (0.0%) |  |
| 8.69999980926514 | 0 (0.0%) | 1 (25.0%) |  |
| 10.5 | 0 (0.0%) | 1 (25.0%) |  |
| 11.1000003814697 | 0 (0.0%) | 1 (25.0%) |  |
| 13.6999998092651 | 1 (50.0%) | 0 (0.0%) |  |
| **White cell count X109** |  |  | >0.9 |
| 2.67000007629395 | 1 (50.0%) | 0 (0.0%) |  |
| 3.86999988555908 | 0 (0.0%) | 1 (25.0%) |  |
| 5.75 | 1 (50.0%) | 0 (0.0%) |  |
| 10.8400001525879 | 0 (0.0%) | 1 (25.0%) |  |
| 33 | 0 (0.0%) | 1 (25.0%) |  |
| 411 | 0 (0.0%) | 1 (25.0%) |  |
| **Lymphocyte count X109** | NA (NA, NA) | NA (NA, NA) |  |
| **Addisons disease** |  |  | >0.9 |
| 0 | 0 (0.0%) | 0 (0.0%) |  |
| 1 | 2 (100.0%) | 4 (100.0%) |  |
| **ART exposure** | 0 (0.0%) | 1 (25.0%) | >0.9 |
| **Kidney medication** | 0 (0.0%) | 1 (25.0%) | >0.9 |
| 1n (%); Median (IQR) | | | |
| 2Fisher's exact test | | | |

Table 2.2.2: Mortality among only Addisons disease patients

| Variable | **Alive**, N = 211 | **Died**, N = 61 | **p-value**2 |
| --- | --- | --- | --- |
| **Age at enrolment median (IQR) (years)** | 36.0 (33.0, 47.0) | 40.5 (33.3, 46.3) | 0.9 |
| **Gender, n(%)** |  |  | >0.9 |
| Female | 11 (52.4%) | 3 (50.0%) |  |
| Male | 10 (47.6%) | 3 (50.0%) |  |
| **Ethnicity, n(%)** |  |  | 0.2 |
| Black African | 19 (90.5%) | 4 (66.7%) |  |
| Other | 2 (9.5%) | 2 (33.3%) |  |
| **Duration of current illness, median (IQR) (days)** | 1,146.0 (281.5, 3,326.0) | 122.5 (7.5, 4,205.0) | 0.5 |
| **Random cortisol** | 338.0 (237.0, 383.0) | 306.5 (261.5, 335.8) | 0.9 |
| **Basal cortisol** | 284.0 (181.0, 350.0) | 308.0 (246.3, 364.5) | 0.5 |
| **Stimulated cortisol** | 379.0 (311.0, 463.0) | 375.0 (338.0, 424.0) | 0.9 |
| **ACTH** | 27.2 (22.3, 64.1) | 42.4 (25.7, 77.7) | 0.6 |
| **BP (systolic)** | 120.0 (100.0, 128.0) | 127.5 (121.8, 129.5) | 0.2 |
| **BP (diastolic)** | 71.0 (70.0, 80.0) | 73.5 (65.0, 78.3) | 0.8 |
| **Heart rate** | 87.0 (80.0, 114.0) | 87.0 (71.5, 98.0) | 0.4 |
| **Hypotension** | 1 (4.8%) | 0 (0.0%) | >0.9 |
| **Weakness** | 17 (81.0%) | 4 (66.7%) | 0.6 |
| **Tiredness** | 17 (81.0%) | 6 (100.0%) | 0.5 |
| **Poor appetite** | 16 (76.2%) | 6 (100.0%) | 0.6 |
| **Weight loss** | 18 (85.7%) | 4 (66.7%) | 0.3 |
| **Increased pigmentation of the skin** | 7 (36.8%) | 2 (40.0%) | >0.9 |
| **Nausea** | 11 (52.4%) | 5 (83.3%) | 0.3 |
| **Vomiting** | 6 (28.6%) | 2 (33.3%) | >0.9 |
| **Liking for salt** | 15 (71.4%) | 4 (66.7%) | >0.9 |
| **Hypoglycaemia** | 0 (0.0%) | 0 (0.0%) |  |
| **Loss of consciousness** | 0 (0.0%) | 0 (0.0%) |  |
| **Diarrhoea** | 7 (33.3%) | 1 (16.7%) | 0.6 |
| **Dizziness** | 10 (50.0%) | 3 (50.0%) | >0.9 |
| **Shock** | 0 (0.0%) | 0 (0.0%) |  |
| **Anorexia** | 6 (28.6%) | 2 (33.3%) | >0.9 |
| **Loss of axillary and pubic hair, if female** |  |  | >0.9 |
| No | 9 (42.9%) | 2 (33.3%) |  |
| Not applicable | 10 (47.6%) | 3 (50.0%) |  |
| Yes | 2 (9.5%) | 1 (16.7%) |  |
| **Any postural drop in blood pressure** | 2 (9.5%) | 0 (0.0%) | >0.9 |
| **Presence of anaemia** | 10 (50.0%) | 3 (50.0%) | >0.9 |
| **Tuberculosis** | 16 (76.2%) | 5 (83.3%) | >0.9 |
| **Cryptococcus neoformans** | 7 (33.3%) | 3 (50.0%) | 0.6 |
| **Pneumonia** | 3 (14.3%) | 0 (0.0%) | >0.9 |
| **Staph aureus** | 1 (4.8%) | 0 (0.0%) | >0.9 |
| **Kaposis sarcoma** | 1 (4.8%) | 0 (0.0%) | >0.9 |
| **Cytomegalovirus** | 1 (4.8%) | 0 (0.0%) | >0.9 |
| **HSV** | 1 (4.8%) | 0 (0.0%) | >0.9 |
| **HepB** | 1 (4.8%) | 1 (16.7%) | 0.4 |
| **Candida** | 1 (4.8%) | 0 (0.0%) | >0.9 |
| **GE/c diff** | 0 (0.0%) | 0 (0.0%) |  |
| **Parvo B19** | 1 (4.8%) | 0 (0.0%) | >0.9 |
| **Syphilis** | 0 (0.0%) | 0 (0.0%) |  |
| **B menigitis** | 0 (0.0%) | 0 (0.0%) |  |
| **UTI / Leptospirosis** | 0 (0.0%) | 0 (0.0%) |  |
| **PCP** | 0 (0.0%) | 0 (0.0%) |  |
| **COVID-19** | 0 (0.0%) | 0 (0.0%) |  |
| **Neurocysticercosis** | 0 (0.0%) | 0 (0.0%) |  |
| **Viral load (log10 Copies/mL)** |  |  | >0.9 |
| 10.4579184937828 | 1 (50.0%) | 0 (NA%) |  |
| 11.60516730587 | 1 (50.0%) | 0 (NA%) |  |
| **Total CD4 count** | 28.0 (11.0, 51.0) | 30.0 (15.5, 45.3) | 0.8 |
| **Sodium mmol/L** | 135.0 (133.0, 137.0) | 136.5 (133.3, 139.0) | 0.6 |
| **Potassium mmol/L** | 4.0 (3.3, 4.6) | 3.7 (3.4, 3.9) | 0.3 |
| **Haemoglobin g/dL** | 8.6 (7.6, 10.3) | 9.6 (8.3, 11.0) | 0.5 |
| **White cell count X109** | 4.2 (2.5, 6.5) | 8.3 (4.3, 27.5) | 0.2 |
| **Lymphocyte count X109** |  |  | >0.9 |
| 0.360000014305115 | 1 (14.3%) | 0 (NA%) |  |
| 0.490000009536743 | 1 (14.3%) | 0 (NA%) |  |
| 0.600000023841858 | 1 (14.3%) | 0 (NA%) |  |
| 0.879999995231628 | 1 (14.3%) | 0 (NA%) |  |
| 1.10000002384186 | 1 (14.3%) | 0 (NA%) |  |
| 1.30999994277954 | 1 (14.3%) | 0 (NA%) |  |
| 33.5999984741211 | 1 (14.3%) | 0 (NA%) |  |
| **Addisons disease** |  |  | 0.6 |
| PAI | 5 (23.8%) | 2 (33.3%) |  |
| SAI | 16 (76.2%) | 4 (66.7%) |  |
| **ART exposure** | 5 (23.8%) | 1 (16.7%) | >0.9 |
| **Kidney medication** | 4 (19.0%) | 1 (16.7%) | >0.9 |
| 1Median (IQR); n (%) | | | |
| 2Wilcoxon rank sum test; Fisher's exact test; Wilcoxon rank sum exact test | | | |

Mortality: Non-AI vs AI

|  | **Mortality: Non-AI vs AI** | | | **Mortality among only Addisons disease patients** | | |
| --- | --- | --- | --- | --- | --- | --- |
| Variable | **1**, N = 601 | **2**, N = 61 | **p-value**2 | **Alive**, N = 211 | **Died**, N = 61 | **p-value**3 |
| **Age at enrolment, median (IQR) (years)** | 38 (33, 44) | 41 (33, 46) | 0.6 |  |  |  |
| **Gender, n(%)** |  |  | >0.9 |  |  | >0.9 |
| Female | 32 (53.3%) | 3 (50.0%) |  | 11 (52.4%) | 3 (50.0%) |  |
| Male | 28 (46.7%) | 3 (50.0%) |  | 10 (47.6%) | 3 (50.0%) |  |
| **Ethnicity, n(%)** |  |  | 0.2 |  |  | 0.2 |
| Black African | 52 (86.7%) | 4 (66.7%) |  | 19 (90.5%) | 4 (66.7%) |  |
| Other | 8 (13.3%) | 2 (33.3%) |  | 2 (9.5%) | 2 (33.3%) |  |
| **Duration of current illness, median (IQR) (days)** | 14 (14, 21) | 14 (11, 14) | 0.079 | 1,146.0 (281.5, 3,326.0) | 122.5 (7.5, 4,205.0) | 0.5 |
| **Weight loss** | 51 (87.9%) | 4 (66.7%) | 0.2 | 18 (85.7%) | 4 (66.7%) | 0.3 |
| **Viral load (log10 Copies/mL)** | 11.74 (9.55, 13.08) | NA (NA, NA) |  |  |  | >0.9 |
| 10.4579184937828 |  |  |  | 1 (50.0%) | 0 (NA%) |  |
| 11.60516730587 |  |  |  | 1 (50.0%) | 0 (NA%) |  |
| **Tuberculosis** | 49 (81.7%) | 5 (83.3%) | >0.9 | 16 (76.2%) | 5 (83.3%) | >0.9 |
| **Cryptococcus neoformans** | 3 (5.0%) | 3 (50.0%) | 0.008 | 7 (33.3%) | 3 (50.0%) | 0.6 |
| **Pneumonia** | 7 (11.7%) | 0 (0.0%) | >0.9 | 3 (14.3%) | 0 (0.0%) | >0.9 |
| **Staph aureus** | 0 (0.0%) | 0 (0.0%) |  | 1 (4.8%) | 0 (0.0%) | >0.9 |
| **Kaposis sarcoma** | 0 (0.0%) | 0 (0.0%) |  | 1 (4.8%) | 0 (0.0%) | >0.9 |
| **Cytomegalovirus** | 0 (0.0%) | 0 (0.0%) |  | 1 (4.8%) | 0 (0.0%) | >0.9 |
| **HSV** | 1 (1.7%) | 0 (0.0%) | >0.9 | 1 (4.8%) | 0 (0.0%) | >0.9 |
| **HepB** | 0 (0.0%) | 1 (16.7%) | 0.091 | 1 (4.8%) | 1 (16.7%) | 0.4 |
| **Candida** | 4 (6.7%) | 0 (0.0%) | >0.9 | 1 (4.8%) | 0 (0.0%) | >0.9 |
| **GE/c diff** | 0 (0.0%) | 0 (0.0%) |  | 0 (0.0%) | 0 (0.0%) |  |
| **Parvo B19** | 0 (0.0%) | 0 (0.0%) |  | 1 (4.8%) | 0 (0.0%) | >0.9 |
| **Syphilis** | 3 (5.0%) | 0 (0.0%) | >0.9 | 0 (0.0%) | 0 (0.0%) |  |
| **B menigitis** | 1 (1.7%) | 0 (0.0%) | >0.9 | 0 (0.0%) | 0 (0.0%) |  |
| **UTI / Leptospirosis** | 1 (1.7%) | 0 (0.0%) | >0.9 | 0 (0.0%) | 0 (0.0%) |  |
| **PCP** | 2 (3.3%) | 0 (0.0%) | >0.9 | 0 (0.0%) | 0 (0.0%) |  |
| **COVID-19** | 0 (0.0%) | 0 (0.0%) |  | 0 (0.0%) | 0 (0.0%) |  |
| **Neurocysticercosis** | 0 (0.0%) | 0 (0.0%) |  | 0 (0.0%) | 0 (0.0%) |  |
| **Total CD4 count** | 28 (14, 55) | 30 (16, 45) | 0.7 | 28.0 (11.0, 51.0) | 30.0 (15.5, 45.3) | 0.8 |
| **White cell count X109** | 5.2 (3.4, 7.4) | 8.3 (4.3, 27.5) | 0.2 | 4.2 (2.5, 6.5) | 8.3 (4.3, 27.5) | 0.2 |
| **Lymphocyte count X109** | 0.84 (0.41, 1.22) | NA (NA, NA) |  |  |  | >0.9 |
| 0.360000014305115 |  |  |  | 1 (14.3%) | 0 (NA%) |  |
| 0.490000009536743 |  |  |  | 1 (14.3%) | 0 (NA%) |  |
| 0.600000023841858 |  |  |  | 1 (14.3%) | 0 (NA%) |  |
| 0.879999995231628 |  |  |  | 1 (14.3%) | 0 (NA%) |  |
| 1.10000002384186 |  |  |  | 1 (14.3%) | 0 (NA%) |  |
| 1.30999994277954 |  |  |  | 1 (14.3%) | 0 (NA%) |  |
| 33.5999984741211 |  |  |  | 1 (14.3%) | 0 (NA%) |  |
| **Neutrophils** | 2 (1, 5) | NA (NA, NA) |  |  |  |  |
| **Sodium mmol/L** | 133.0 (128.0, 136.0) | 136.5 (133.3, 139.0) | 0.15 | 135.0 (133.0, 137.0) | 136.5 (133.3, 139.0) | 0.6 |
| **Potassium mmol/L** | 3.95 (3.60, 4.57) | 3.70 (3.37, 3.88) | 0.077 | 4.0 (3.3, 4.6) | 3.7 (3.4, 3.9) | 0.3 |
| **Haemoglobin g/dL** | 8.20 (7.00, 9.63) | 9.60 (8.25, 10.95) | 0.3 | 8.6 (7.6, 10.3) | 9.6 (8.3, 11.0) | 0.5 |
| **BP (systolic)** | 110 (102, 120) | 128 (122, 130) | 0.059 | 120.0 (100.0, 128.0) | 127.5 (121.8, 129.5) | 0.2 |
| **BP (diastolic)** | 71 (67, 80) | 74 (65, 78) | 0.8 | 71.0 (70.0, 80.0) | 73.5 (65.0, 78.3) | 0.8 |
| **Heart rate** | 91 (82, 108) | 87 (72, 98) | 0.3 | 87.0 (80.0, 114.0) | 87.0 (71.5, 98.0) | 0.4 |
| **Hypotension** | 7 (12.1%) | 0 (0.0%) | >0.9 | 1 (4.8%) | 0 (0.0%) | >0.9 |
| **Weakness** | 54 (93.1%) | 4 (66.7%) | 0.093 | 17 (81.0%) | 4 (66.7%) | 0.6 |
| **Tiredness** | 53 (93.0%) | 6 (100.0%) | >0.9 | 17 (81.0%) | 6 (100.0%) | 0.5 |
| **Poor appetite** | 51 (87.9%) | 6 (100.0%) | >0.9 | 16 (76.2%) | 6 (100.0%) | 0.6 |
| **Increased pigmentation of the skin** | 36 (63.2%) | 2 (40.0%) | 0.4 | 7 (36.8%) | 2 (40.0%) | >0.9 |
| **Nausea** | 37 (63.8%) | 5 (83.3%) | 0.7 | 11 (52.4%) | 5 (83.3%) | 0.3 |
| **Vomiting** | 15 (25.9%) | 2 (33.3%) | 0.7 | 6 (28.6%) | 2 (33.3%) | >0.9 |
| **Liking for salt** | 38 (65.5%) | 4 (66.7%) | >0.9 | 15 (71.4%) | 4 (66.7%) | >0.9 |
| **Hypoglycaemia** | 2 (3.4%) | 0 (0.0%) | >0.9 | 0 (0.0%) | 0 (0.0%) |  |
| **Loss of consciousness** | 2 (3.4%) | 0 (0.0%) | >0.9 | 0 (0.0%) | 0 (0.0%) |  |
| **Diarrhoea** | 33 (56.9%) | 1 (16.7%) | 0.090 | 7 (33.3%) | 1 (16.7%) | 0.6 |
| **Dizziness** | 34 (59.6%) | 3 (50.0%) | 0.7 | 10 (50.0%) | 3 (50.0%) | >0.9 |
| **Shock** | 2 (3.4%) | 0 (0.0%) | >0.9 | 0 (0.0%) | 0 (0.0%) |  |
| **Anorexia** | 35 (60.3%) | 2 (33.3%) | 0.2 | 6 (28.6%) | 2 (33.3%) | >0.9 |
| **Loss of axillary and pubic hair, if female** |  |  | 0.8 |  |  | >0.9 |
| No | 12 (21.1%) | 2 (33.3%) |  | 9 (42.9%) | 2 (33.3%) |  |
| Not applicable | 26 (45.6%) | 3 (50.0%) |  | 10 (47.6%) | 3 (50.0%) |  |
| Yes | 19 (33.3%) | 1 (16.7%) |  | 2 (9.5%) | 1 (16.7%) |  |
| **Any postural drop in blood pressure** | 4 (7.0%) | 0 (0.0%) | >0.9 | 2 (9.5%) | 0 (0.0%) | >0.9 |
| **Presence of anaemia** | 38 (65.5%) | 3 (50.0%) | 0.7 | 10 (50.0%) | 3 (50.0%) | >0.9 |
| **ART exposure** | 26 (43.3%) | 1 (16.7%) | 0.4 | 5 (23.8%) | 1 (16.7%) | >0.9 |
| **Kidney medication** | 10 (16.7%) | 1 (16.7%) | >0.9 | 4 (19.0%) | 1 (16.7%) | >0.9 |
| **Age at enrolment median (IQR) (years)** |  |  |  | 36.0 (33.0, 47.0) | 40.5 (33.3, 46.3) | 0.9 |
| **Random cortisol** |  |  |  | 338.0 (237.0, 383.0) | 306.5 (261.5, 335.8) | 0.9 |
| **Basal cortisol** |  |  |  | 284.0 (181.0, 350.0) | 308.0 (246.3, 364.5) | 0.5 |
| **Stimulated cortisol** |  |  |  | 379.0 (311.0, 463.0) | 375.0 (338.0, 424.0) | 0.9 |
| **ACTH** |  |  |  | 27.2 (22.3, 64.1) | 42.4 (25.7, 77.7) | 0.6 |
| **Addisons disease** |  |  |  |  |  | 0.6 |
| PAI |  |  |  | 5 (23.8%) | 2 (33.3%) |  |
| SAI |  |  |  | 16 (76.2%) | 4 (66.7%) |  |
| 1Median (IQR); n (%) | | | | | | |
| 2Wilcoxon rank sum test; Fisher's exact test | | | | | | |
| 3Wilcoxon rank sum test; Fisher's exact test; Wilcoxon rank sum exact test | | | | | | |

| **Characteristic** | **N** | **HR**1 | **95% CI**1 | **p-value** |
| --- | --- | --- | --- | --- |
| Age\_at\_enrolment | 547 | 1.02 | 0.99, 1.04 | 0.2 |
| Gender | 548 |  |  |  |
| Female |  | — | — |  |
| Male |  | 0.92 | 0.56, 1.49 | 0.7 |
| Ethnicity | 549 |  |  |  |
| Black African |  | — | — |  |
| Other |  | 0.63 | 0.32, 1.23 | 0.2 |
| Random\_cortisol | 434 | 1.00 | 1.00, 1.00 | 0.6 |
| Basal\_cortisol | 151 | 1.00 | 1.00, 1.00 | 0.15 |
| Stimulated\_cortisol | 148 | 1.00 | 1.00, 1.00 | >0.9 |
| ACTH | 434 | 1.01 | 1.00, 1.01 | <0.001 |
| BP\_systolic | 538 | 0.99 | 0.98, 1.01 | 0.3 |
| BP\_diastolic | 538 | 1.02 | 1.00, 1.03 | 0.066 |
| Heart\_rate | 537 | 1.00 | 0.99, 1.02 | 0.5 |
| Hypotension | 522 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 1.25 | 0.57, 2.75 | 0.6 |
| Weakness | 523 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 1.78 | 0.77, 4.12 | 0.2 |
| Tiredness | 524 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 2.67 | 0.97, 7.35 | 0.057 |
| Poor\_appetite | 520 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 2.66 | 1.21, 5.83 | 0.015 |
| Weight\_loss | 525 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 0.98 | 0.48, 1.98 | >0.9 |
| Increased\_pigmentation\_of\_the\_skin | 510 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 1.60 | 0.96, 2.66 | 0.072 |
| Nausea | 523 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 1.73 | 1.03, 2.89 | 0.038 |
| Vomiting | 522 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 0.95 | 0.55, 1.65 | 0.9 |
| Liking\_for\_salt | 521 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 1.69 | 1.01, 2.83 | 0.046 |
| Hypoglycaemia | 521 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 1.49 | 0.36, 6.07 | 0.6 |
| Loss\_of\_consciousness | 520 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 2.57 | 0.63, 10.5 | 0.2 |
| Diarrhoea | 519 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 1.48 | 0.91, 2.42 | 0.12 |
| Dizziness | 520 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 1.59 | 0.96, 2.63 | 0.069 |
| Shock | 524 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 3.85 | 0.94, 15.7 | 0.061 |
| Anorexia | 522 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 1.62 | 0.99, 2.66 | 0.057 |
| Loss\_of\_axillary\_and\_pubic\_hair | 529 |  |  |  |
| No |  | — | — |  |
| Not applicable |  | 1.35 | 0.71, 2.56 | 0.4 |
| Yes |  | 2.62 | 1.32, 5.18 | 0.006 |
| Any\_postural\_drop\_in\_blood\_pressure | 521 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 1.50 | 0.54, 4.13 | 0.4 |
| Presence\_of\_anaemia | 519 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 1.28 | 0.77, 2.14 | 0.3 |
| Tuberculosis | 528 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 0.82 | 0.44, 1.54 | 0.5 |
| Cryptococcus neoformans | 528 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 1.74 | 0.75, 4.02 | 0.2 |
| Pneumonia | 528 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 0.90 | 0.41, 1.96 | 0.8 |
| Staph aureus | 528 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 0.00 | 0.00, Inf | >0.9 |
| Kaposis sarcoma | 528 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 0.00 | 0.00, Inf | >0.9 |
| Cytomegalovirus | 528 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 0.00 | 0.00, Inf | >0.9 |
| HSV | 528 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 0.95 | 0.13, 6.88 | >0.9 |
| HepB | 528 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 0.42 | 0.06, 3.01 | 0.4 |
| Candida | 528 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 1.14 | 0.41, 3.13 | 0.8 |
| GE/c diff | 528 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 0.00 | 0.00, Inf | >0.9 |
| Parvo B19 | 528 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 0.00 | 0.00, Inf | >0.9 |
| Syphilis | 528 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 1.38 | 0.43, 4.38 | 0.6 |
| B menigitis | 528 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 1.65 | 0.23, 11.9 | 0.6 |
| UTI / Leptospirosis | 528 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 1.14 | 0.16, 8.25 | 0.9 |
| PCP | 528 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 5.54 | 1.36, 22.7 | 0.017 |
| COVID-19 | 528 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 0.00 | 0.00, Inf | >0.9 |
| Neurocysticercosis | 528 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 0.00 | 0.00, Inf | >0.9 |
| Viral\_load | 121 | 1.19 | 1.01, 1.41 | 0.036 |
| CD4\_count | 542 | 0.99 | 0.98, 1.00 | 0.2 |
| Sodium | 518 | 1.00 | 0.98, 1.02 | >0.9 |
| Potassium | 516 | 0.98 | 0.94, 1.03 | 0.5 |
| Haemoglobin | 542 | 0.97 | 0.87, 1.08 | 0.6 |
| White\_cell\_count | 538 | 1.00 | 1.00, 1.00 | >0.9 |
| Lymphocyte\_count | 124 | 0.92 | 0.81, 1.05 | 0.2 |
| ART exposure | 549 |  |  |  |
| No |  | — | — |  |
| Yes |  | 1.21 | 0.74, 1.97 | 0.5 |
| Kidney medication | 549 |  |  |  |
| No |  | — | — |  |
| Yes |  | 2.09 | 1.10, 4.00 | 0.025 |
| Addisons\_disease | 549 |  |  |  |
| 0 |  | — | — |  |
| 1 |  | 2.11 | 0.91, 4.89 | 0.081 |
| 1HR = Hazard Ratio, CI = Confidence Interval | | | | |

# Table 4: Multivariate table mortality

iter imp variable 1 1 Age\_at\_enrolment Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 1 2 Age\_at\_enrolment Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 1 3 Age\_at\_enrolment Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 1 4 Age\_at\_enrolment Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 1 5 Age\_at\_enrolment Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 2 1 Age\_at\_enrolment Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 2 2 Age\_at\_enrolment Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 2 3 Age\_at\_enrolment Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 2 4 Age\_at\_enrolment Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 2 5 Age\_at\_enrolment Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 3 1 Age\_at\_enrolment Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 3 2 Age\_at\_enrolment Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 3 3 Age\_at\_enrolment Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 3 4 Age\_at\_enrolment Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 3 5 Age\_at\_enrolment Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 4 1 Age\_at\_enrolment Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 4 2 Age\_at\_enrolment Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 4 3 Age\_at\_enrolment Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 4 4 Age\_at\_enrolment Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 4 5 Age\_at\_enrolment Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 5 1 Age\_at\_enrolment Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 5 2 Age\_at\_enrolment Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 5 3 Age\_at\_enrolment Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 5 4 Age\_at\_enrolment Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 5 5 Age\_at\_enrolment Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 6 1 Age\_at\_enrolment Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 6 2 Age\_at\_enrolment Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 6 3 Age\_at\_enrolment Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 6 4 Age\_at\_enrolment Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Random\_cortisol 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Lymphocyte\_count Neutrophils Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 20 1 Age\_at\_enrolment Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 20 2 Age\_at\_enrolment Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 20 3 Age\_at\_enrolment Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils Random\_cortisol Basal\_cortisol Stimulated\_cortisol ACTH BP\_systolic BP\_diastolic 20 4 Age\_at\_enrolment Duration\_of\_current\_illness Viral\_load CD4\_count Sodium Potassium Haemoglobin White\_cell\_count Lymphocyte\_count Neutrophils 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COXPH model on effect of Addisons on mortality

| **Characteristic** | **HR**1 | **95% CI**1 | **p-value** |
| --- | --- | --- | --- |
| AI | 2.10 | 0.90, 4.90 | 0.087 |
| CD4\_count | 0.88 | 0.68, 1.14 | 0.3 |
| Lymphocyte\_count | 0.94 | 0.88, 1.00 | 0.062 |
| Potassium | 0.98 | 0.93, 1.04 | 0.5 |
| Kidney\_medication |  |  |  |
| No | — | — |  |
| Yes | 1.85 | 0.96, 3.56 | 0.066 |
| 1HR = Hazard Ratio, CI = Confidence Interval | | | |

Logistic model on effect of Addisons on mortality

| **Characteristic** | **OR**1 | **95% CI**1 | **p-value** |
| --- | --- | --- | --- |
| AI | 2.26 | 0.79, 5.68 | 0.10 |
| CD4\_count | 0.88 | 0.66, 1.15 | 0.3 |
| Lymphocyte\_count | 0.94 | 0.87, 0.99 | 0.062 |
| Potassium | 0.98 | 0.90, 1.02 | 0.5 |
| Kidney\_medication |  |  |  |
| No | — | — |  |
| Yes | 1.96 | 0.90, 3.97 | 0.073 |
| 1OR = Odds Ratio, CI = Confidence Interval | | | |

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# Table 5 univariate analysis for addisson’s disease

| **Characteristic** | **N** | **OR**1 | **95% CI**1 | **p-value** |
| --- | --- | --- | --- | --- |
| Age at enrolment | 547 | 1.02 | 0.98, 1.07 | 0.2 |
| Gender, n(%) | 548 |  |  |  |
| Female |  | — | — |  |
| Male |  | 0.97 | 0.44, 2.11 | >0.9 |
| Ethnicity, n(%) | 549 | 0.62 | 0.18, 1.64 | 0.4 |
| Duration of current illness, median (IQR) (days) | 514 | 1.00 | 0.98, 1.00 | 0.7 |
| Weight loss | 525 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 0.70 | 0.27, 2.13 | 0.5 |
| log10 viral load | 121 | 1.11 | 0.75, 1.84 | 0.6 |
| Tuberculosis | 528 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 0.64 | 0.26, 1.78 | 0.3 |
| Cryptococcus neoformans | 528 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 14.1 | 5.63, 34.6 | <0.001 |
| Pneumonia | 528 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 0.94 | 0.22, 2.79 | >0.9 |
| Staph aureus | 528 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 40,815,699 | 0.00, NA | >0.9 |
| Kaposis sarcoma | 528 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 3.82 | 0.20, 24.8 | 0.2 |
| Cytomegalovirus | 528 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 40,815,699 | 0.00, NA | >0.9 |
| HSV | 528 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 2.71 | 0.14, 16.1 | 0.4 |
| HepB | 528 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 2.42 | 0.37, 9.17 | 0.3 |
| Candida | 528 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 0.65 | 0.04, 3.24 | 0.7 |
| GE/c diff | 528 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 0.00 |  | >0.9 |
| Parvo B19 | 528 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 40,815,699 | 0.00, NA | >0.9 |
| Syphilis | 528 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 0.00 |  | >0.9 |
| B menigitis | 528 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 0.00 |  | >0.9 |
| UTI / Leptospirosis | 528 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 0.00 |  | >0.9 |
| PCP | 528 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 0.00 |  | >0.9 |
| COVID-19 | 528 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 0.00 |  | >0.9 |
| Neurocysticercosis | 528 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 0.00 |  | >0.9 |
| Total CD4 count | 542 | 0.99 | 0.98, 1.01 | 0.4 |
| White cell count X109 | 538 | 1.00 | 1.00, 1.00 | 0.4 |
| Lymphocyte count X109 | 124 | 1.00 |  | 0.9 |
| Neutrophils | 126 | 0.24 | 0.02, 0.82 | 0.2 |
| Sodium mmol/L | 518 | 1.23 | 0.97, 1.54 | 0.089 |
| Potassium mmol/L | 516 | 0.96 | 0.55, 1.13 | 0.8 |
| Haemoglobin g/dL | 542 | 1.00 |  | 0.9 |
| BP (systolic) | 538 | 1.00 | 0.98, 1.02 | 0.7 |
| BP (diastolic) | 538 | 1.02 | 0.99, 1.05 | 0.2 |
| Any postural drop in blood pressure | 521 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 1.80 | 0.28, 6.63 | 0.4 |
| Heart rate | 537 | 1.00 | 0.98, 1.01 | 0.7 |
| Hypotension | 522 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 0.38 | 0.02, 1.83 | 0.3 |
| Weakness | 523 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 0.61 | 0.25, 1.72 | 0.3 |
| Tiredness | 524 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 1.01 | 0.37, 3.50 | >0.9 |
| Poor appetite | 520 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 1.40 | 0.56, 4.25 | 0.5 |
| Increased pigmentation of the skin | 510 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 0.58 | 0.24, 1.33 | 0.2 |
| Nausea | 523 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 1.29 | 0.59, 2.91 | 0.5 |
| Vomiting | 522 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 1.10 | 0.44, 2.49 | 0.8 |
| Liking for salt | 521 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 2.10 | 0.93, 5.18 | 0.085 |
| Hypoglycaemia | 521 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 0.00 |  | >0.9 |
| Loss of consciousness | 520 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 0.00 |  | >0.9 |
| Diarrhoea | 519 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 0.52 | 0.21, 1.18 | 0.13 |
| Dizziness | 520 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 1.09 | 0.49, 2.43 | 0.8 |
| Shock | 524 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 0.00 |  | >0.9 |
| Anorexia | 522 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 0.47 | 0.19, 1.06 | 0.079 |
| Presence of anaemia | 519 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 0.70 | 0.32, 1.56 | 0.4 |
| ART exposure | 549 |  |  |  |
| No |  | — | — |  |
| Yes |  | 0.48 | 0.17, 1.13 | 0.11 |
| Kidney medication | 549 |  |  |  |
| No |  | — | — |  |
| Yes |  | 2.35 | 0.76, 6.06 | 0.10 |
| mortality | 150 |  |  |  |
| no |  | — | — |  |
| yes |  | 1.30 | 0.39, 4.35 | 0.7 |
| 1OR = Odds Ratio, CI = Confidence Interval | | | | |

iter imp variable 1 1 BP\_diastolic Weakness Diarrhoea Tuberculosis Sodium Lymphocyte\_count Weight\_loss Anorexia Neutrophils Total.CD4.count Potassium Duration\_of\_current\_illness Age\_at\_enrolment Gender 1 2 BP\_diastolic Weakness Diarrhoea Tuberculosis Sodium Lymphocyte\_count Weight\_loss Anorexia Neutrophils Total.CD4.count Potassium Duration\_of\_current\_illness Age\_at\_enrolment Gender 1 3 BP\_diastolic Weakness Diarrhoea Tuberculosis Sodium Lymphocyte\_count Weight\_loss Anorexia Neutrophils Total.CD4.count Potassium Duration\_of\_current\_illness Age\_at\_enrolment Gender 1 4 BP\_diastolic Weakness Diarrhoea Tuberculosis Sodium Lymphocyte\_count Weight\_loss Anorexia Neutrophils Total.CD4.count Potassium Duration\_of\_current\_illness Age\_at\_enrolment Gender 1 5 BP\_diastolic Weakness Diarrhoea Tuberculosis Sodium Lymphocyte\_count Weight\_loss Anorexia Neutrophils Total.CD4.count Potassium Duration\_of\_current\_illness Age\_at\_enrolment Gender 2 1 BP\_diastolic 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Tuberculosis Sodium Lymphocyte\_count Weight\_loss Anorexia Neutrophils Total.CD4.count Potassium Duration\_of\_current\_illness Age\_at\_enrolment Gender 14 4 BP\_diastolic Weakness Diarrhoea Tuberculosis Sodium Lymphocyte\_count Weight\_loss Anorexia Neutrophils Total.CD4.count Potassium Duration\_of\_current\_illness Age\_at\_enrolment Gender 14 5 BP\_diastolic Weakness Diarrhoea Tuberculosis Sodium Lymphocyte\_count Weight\_loss Anorexia Neutrophils Total.CD4.count Potassium Duration\_of\_current\_illness Age\_at\_enrolment Gender 15 1 BP\_diastolic Weakness Diarrhoea Tuberculosis Sodium Lymphocyte\_count Weight\_loss Anorexia Neutrophils Total.CD4.count Potassium Duration\_of\_current\_illness Age\_at\_enrolment Gender 15 2 BP\_diastolic Weakness Diarrhoea Tuberculosis Sodium Lymphocyte\_count Weight\_loss Anorexia Neutrophils Total.CD4.count Potassium Duration\_of\_current\_illness Age\_at\_enrolment Gender 15 3 BP\_diastolic Weakness Diarrhoea Tuberculosis Sodium 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| **Characteristic** | **OR**1 | **95% CI**1 | **p-value** |
| --- | --- | --- | --- |
| Potassium | 1.05 | 0.59, 1.33 | 0.8 |
| Neutrophils | 0.93 | 0.78, 1.05 | 0.4 |
| CD4\_count | 1.0 | 0.98, 1.01 | 0.5 |
| 1OR = Odds Ratio, CI = Confidence Interval | | | |