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

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Table of Contents

# Baseline table

**Baseline table**

| Variable | **N = 528** |
| --- | --- |
| **Age at enrolment, median (IQR) (years)** | 36.0 (31.0, 43.0) |
| **Gender, n(%)** |  |
| Female | 269 (50.9%) |
| Male | 256 (48.5%) |
| Unknown | 3 (0.6%) |
| **Ethnicity, n(%)** |  |
| Black African | 421 (79.7%) |
| Other | 105 (19.9%) |
| Unknown | 2 (0.4%) |
| **Duration of current illness, median (IQR) (days)** | 14.0 (12.0, 21.0) |
| **log10 viral load** | 10.7 (7.4, 12.3) |
| **Total CD4 count** | 33.0 (15.0, 61.0) |
| **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%) |

# Table 1

| Variable | **Female**, N = 269 | **Male**, N = 256 | **p-value** |
| --- | --- | --- | --- |
| **Age at enrolment, median (IQR) (years)** | 35.0 (31.0, 42.0) | 37.0 (32.0, 44.5) | 0.017 |
| **Ethnicity, n(%)** |  |  | 0.6 |
| Black African | 210 (78.1%) | 210 (82.0%) |  |
| Other | 58 (21.6%) | 45 (17.6%) |  |
| Unknown | 1 (0.4%) | 1 (0.4%) |  |
| **Duration of current illness, median (IQR) (days)** | 14.0 (11.5, 21.0) | 14.0 (12.8, 21.0) | 0.6 |
| **log10 viral load** | 10.4 (7.2, 12.2) | 10.7 (7.7, 12.5) | 0.8 |
| **Total CD4 count** | 33.0 (15.0, 58.0) | 32.5 (12.8, 64.0) | >0.9 |
| **Sodium** | 134.0 (131.0, 138.0) | 133.0 (129.0, 136.0) | <0.001 |
| **Potassium** | 3.9 (3.5, 4.4) | 4.2 (3.9, 4.7) | <0.001 |
| **Haemoglobin** | 8.3 (7.1, 9.6) | 9.3 (7.9, 10.9) | <0.001 |
| **White cell count** | 5.3 (3.5, 8.0) | 5.4 (3.8, 8.3) | 0.8 |
| **Lymphocyte count** | 0.9 (0.3, 2.4) | 0.8 (0.5, 1.4) | 0.8 |
| **Neutrophils** | 3.3 (1.5, 10.2) | 3.2 (1.3, 7.3) | 0.6 |
| **Addisons disease** | 14 (5.2%) | 12 (4.7%) | 0.8 |
| **Tuberculosis** | 221 (82.2%) | 222 (86.7%) | 0.2 |
| **Cryptococcus neoformans** | 12 (4.5%) | 18 (7.0%) | 0.2 |
| **Pneumonia** | 30 (11.2%) | 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** | 11 (4.1%) | 7 (2.7%) | 0.4 |
| **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 |

# Table 1.2

# Table 2: comparing Addisons status with other variables

| Variable | **Overall**, N = 26 | **yes**, N = 26 | **no**, N = 0 | **p-value** |
| --- | --- | --- | --- | --- |
| **Age at enrolment, median (IQR) (years)** | 36.0 (31.5, 46.0) | 36.0 (31.5, 46.0) | NA (NA, NA) |  |
| **Gender, n(%)** |  |  |  | >0.9 |
| Female | 14 (53.8%) | 14 (53.8%) | 0 (NA%) |  |
| Male | 12 (46.2%) | 12 (46.2%) | 0 (NA%) |  |
| **Ethnicity, n(%)** |  |  |  | >0.9 |
| Black African | 23 (88.5%) | 23 (88.5%) | 0 (NA%) |  |
| Other | 3 (11.5%) | 3 (11.5%) | 0 (NA%) |  |
| **Duration of current illness, median (IQR) (days)** | 14.0 (14.0, 30.0) | 14.0 (14.0, 30.0) | NA (NA, NA) |  |
| **Random cortisol** | 313.0 (251.5, 379.5) | 313.0 (251.5, 379.5) | NA (NA, NA) |  |
| **Basal cortisol** | 300.0 (196.3, 363.5) | 300.0 (196.3, 363.5) | NA (NA, NA) |  |
| **Stimulated cortisol** | 391.0 (320.8, 441.0) | 391.0 (320.8, 441.0) | NA (NA, NA) |  |
| **ACTH** | 28.0 (22.1, 69.6) | 28.0 (22.1, 69.6) | NA (NA, NA) |  |
| **BP (systolic)** | 120.0 (106.5, 128.8) | 120.0 (106.5, 128.8) | NA (NA, NA) |  |
| **BP (diastolic)** | 72.0 (64.8, 80.0) | 72.0 (64.8, 80.0) | NA (NA, NA) |  |
| **Heart rate** | 86.5 (77.8, 108.0) | 86.5 (77.8, 108.0) | NA (NA, NA) |  |
| **Hypotension** | 1 (3.8%) | 1 (3.8%) | 0 (NA%) | >0.9 |
| **Weakness** | 21 (80.8%) | 21 (80.8%) | 0 (NA%) | >0.9 |
| **Tiredness** | 23 (88.5%) | 23 (88.5%) | 0 (NA%) | >0.9 |
| **Poor appetite** | 22 (84.6%) | 22 (84.6%) | 0 (NA%) | >0.9 |
| **Weight loss** | 21 (80.8%) | 21 (80.8%) | 0 (NA%) | >0.9 |
| **Increased pigmentation of the skin** | 9 (34.6%) | 9 (34.6%) | 0 (NA%) | >0.9 |
| **Nausea** | 16 (61.5%) | 16 (61.5%) | 0 (NA%) | >0.9 |
| **Vomiting** | 8 (30.8%) | 8 (30.8%) | 0 (NA%) | >0.9 |
| **Liking for salt** | 18 (69.2%) | 18 (69.2%) | 0 (NA%) | >0.9 |
| **Hypoglycaemia** | 0 (0.0%) | 0 (0.0%) | 0 (NA%) |  |
| **Loss of consciousness** | 0 (0.0%) | 0 (0.0%) | 0 (NA%) |  |
| **Diarrhoea** | 8 (30.8%) | 8 (30.8%) | 0 (NA%) | >0.9 |
| **Dizziness** | 13 (50.0%) | 13 (50.0%) | 0 (NA%) | >0.9 |
| **Shock** | 0 (0.0%) | 0 (0.0%) | 0 (NA%) |  |
| **Anorexia** | 8 (30.8%) | 8 (30.8%) | 0 (NA%) | >0.9 |
| **Loss of axillary and pubic hair, if female** |  |  |  | >0.9 |
| No | 11 (42.3%) | 11 (42.3%) | 0 (NA%) |  |
| Not applicable | 12 (46.2%) | 12 (46.2%) | 0 (NA%) |  |
| Yes | 3 (11.5%) | 3 (11.5%) | 0 (NA%) |  |
| **Any postural drop in blood pressure** | 2 (7.7%) | 2 (7.7%) | 0 (NA%) | >0.9 |
| **Presence of anaemia** | 13 (50.0%) | 13 (50.0%) | 0 (NA%) | >0.9 |
| **Viral load (log10 Copies/mL)** | 11.0 (10.7, 11.3) | 11.0 (10.7, 11.3) | NA (NA, NA) |  |
| **Total CD4 count** | 25.5 (13.3, 50.3) | 25.5 (13.3, 50.3) | NA (NA, NA) |  |
| **Sodium mmol/L** | 135.0 (133.0, 137.0) | 135.0 (133.0, 137.0) | NA (NA, NA) |  |
| **Potassium mmol/L** | 3.9 (3.3, 4.1) | 3.9 (3.3, 4.1) | NA (NA, NA) |  |
| **Haemoglobin g/dL** | 8.7 (7.6, 10.4) | 8.7 (7.6, 10.4) | NA (NA, NA) |  |
| **White cell count X109** | 4.7 (2.7, 9.8) | 4.7 (2.7, 9.8) | NA (NA, NA) |  |
| **Lymphocyte count X109** | 0.9 (0.5, 1.3) | 0.9 (0.5, 1.3) | NA (NA, NA) |  |
| **Neutrophils** | 1.0 (0.9, 1.5) | 1.0 (0.9, 1.5) | NA (NA, NA) |  |
| **3 followup\_patientstatus** |  |  |  | >0.9 |
| Alive | 9 (34.6%) | 9 (34.6%) | 0 (NA%) |  |
| Deceased –> EXIT form | 3 (11.5%) | 3 (11.5%) | 0 (NA%) |  |
| NA | 14 (53.8%) | 14 (53.8%) | 0 (NA%) |  |
| **6 followup\_patientstatus** |  |  |  | >0.9 |
| Alive | 8 (30.8%) | 8 (30.8%) | 0 (NA%) |  |
| Deceased –> EXIT form | 5 (19.2%) | 5 (19.2%) | 0 (NA%) |  |
| NA | 13 (50.0%) | 13 (50.0%) | 0 (NA%) |  |
| **12 followup\_patientstatus** |  |  |  | >0.9 |
| Alive | 11 (42.3%) | 11 (42.3%) | 0 (NA%) |  |
| Deceased –> EXIT form | 5 (19.2%) | 5 (19.2%) | 0 (NA%) |  |
| NA | 10 (38.5%) | 10 (38.5%) | 0 (NA%) |  |

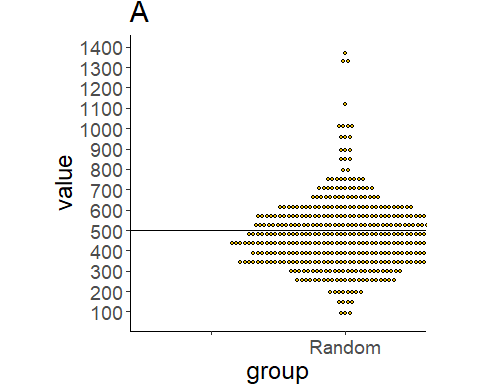
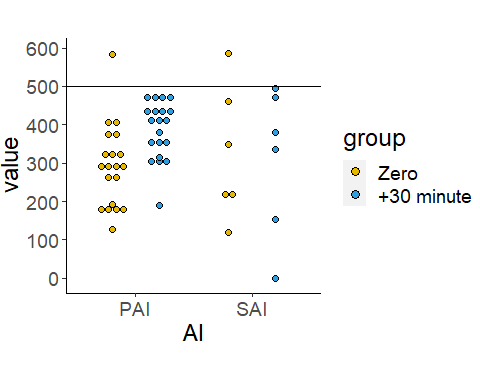
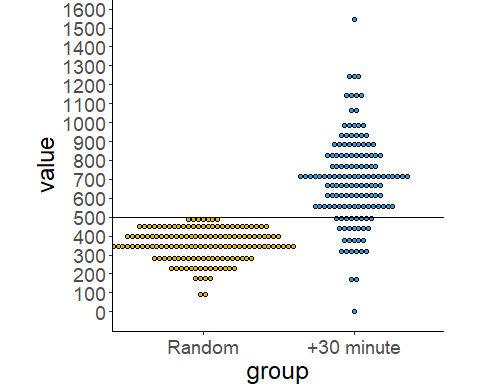
# Table 2.2: Cause of moratlity

## cross-tabulation

| Variable | **PAI**, N = 20 | **SAI**, N = 6 | **p-value** |
| --- | --- | --- | --- |
| **Age at enrolment, median (IQR) (years)** | 36.0 (31.0, 42.3) | 43.0 (35.3, 51.5) | 0.3 |
| **Gender, n(%)** |  |  | 0.7 |
| Female | 10 (50.0%) | 4 (66.7%) |  |
| Male | 10 (50.0%) | 2 (33.3%) |  |
| **Ethnicity, n(%)** |  |  | >0.9 |
| Black African | 18 (90.0%) | 5 (83.3%) |  |
| Other | 2 (10.0%) | 1 (16.7%) |  |
| **Duration of current illness, median (IQR) (days)** | 14.0 (10.8, 15.8) | 30.0 (30.0, 30.0) | 0.013 |
| **Random cortisol** | 334.5 (254.5, 376.5) | 272.5 (237.5, 365.3) | 0.7 |
| **Basal cortisol** | 300.0 (190.3, 338.0) | 289.0 (213.8, 433.3) | 0.7 |
| **Stimulated cortisol** | 410.5 (339.3, 439.0) | 357.0 (197.8, 448.8) | 0.6 |
| **ACTH** | 42.4 (25.2, 76.0) | 9.5 (7.3, 12.7) | <0.001 |
| **BP (systolic)** | 120.0 (109.5, 128.5) | 115.0 (102.0, 125.8) | 0.6 |
| **BP (diastolic)** | 71.0 (68.3, 80.0) | 73.0 (61.0, 78.3) | 0.8 |
| **Heart rate** | 91.0 (76.8, 110.3) | 85.0 (82.5, 86.8) | 0.8 |
| **Hypotension** | 1 (5.0%) | 0 (0.0%) | >0.9 |
| **Weakness** | 15 (75.0%) | 6 (100.0%) | 0.3 |
| **Tiredness** | 17 (85.0%) | 6 (100.0%) | >0.9 |
| **Poor appetite** | 18 (90.0%) | 4 (66.7%) | 0.2 |
| **Weight loss** | 18 (90.0%) | 3 (50.0%) | 0.062 |
| **Increased pigmentation of the skin** | 7 (35.0%) | 2 (33.3%) | >0.9 |
| **Nausea** | 11 (55.0%) | 5 (83.3%) | 0.4 |
| **Vomiting** | 6 (30.0%) | 2 (33.3%) | >0.9 |
| **Liking for salt** | 13 (65.0%) | 5 (83.3%) | 0.6 |
| **Hypoglycaemia** | 0 (0.0%) | 0 (0.0%) |  |
| **Loss of consciousness** | 0 (0.0%) | 0 (0.0%) |  |
| **Diarrhoea** | 5 (25.0%) | 3 (50.0%) | 0.3 |
| **Dizziness** | 10 (50.0%) | 3 (50.0%) | >0.9 |
| **Shock** | 0 (0.0%) | 0 (0.0%) |  |
| **Anorexia** | 7 (35.0%) | 1 (16.7%) | 0.6 |
| **Loss of axillary and pubic hair, if female** |  |  | 0.7 |
| No | 8 (40.0%) | 3 (50.0%) |  |
| Not applicable | 10 (50.0%) | 2 (33.3%) |  |
| Yes | 2 (10.0%) | 1 (16.7%) |  |
| **Any postural drop in blood pressure** | 1 (5.0%) | 1 (16.7%) | 0.4 |
| **Presence of anaemia** | 11 (55.0%) | 2 (33.3%) | 0.6 |
| **Presence of an opportunistic infection** |  |  |  |
| Yes | 20 (100.0%) | 6 (100.0%) |  |
| **Viral load (log10 Copies/mL)** | 11.0 (10.7, 11.3) | NA (NA, NA) |  |
| **CD4 count** | 25.5 (13.8, 50.5) | 32.0 (9.8, 49.0) | >0.9 |
| **Sodium mmol/L** | 134.5 (131.8, 137.0) | 136.0 (135.3, 138.3) | 0.2 |
| **Potassium mmol/L** | 3.8 (3.3, 4.1) | 3.9 (3.4, 4.1) | 0.9 |
| **Haemoglobin g/dL** | 8.5 (7.7, 10.3) | 8.7 (6.7, 10.5) | >0.9 |
| **White cell count X109** | 4.5 (2.5, 7.6) | 5.2 (4.1, 11.2) | 0.3 |
| **Lymphocyte count X109** | 1.3 (1.0, 17.5) | 0.5 (0.4, 0.8) | 0.2 |
| **Neutrophils** | 0.7 (0.6, 0.8) | 1.5 (1.3, 1.6) | 0.2 |
| **3 followup\_patientstatus** |  |  | 0.7 |
| Alive | 6 (30.0%) | 3 (50.0%) |  |
| Deceased –> EXIT form | 3 (15.0%) | 0 (0.0%) |  |
| NA | 11 (55.0%) | 3 (50.0%) |  |
| **6 followup\_patientstatus** |  |  | >0.9 |
| Alive | 6 (30.0%) | 2 (33.3%) |  |
| Deceased –> EXIT form | 4 (20.0%) | 1 (16.7%) |  |
| NA | 10 (50.0%) | 3 (50.0%) |  |
| **12 followup\_patientstatus** |  |  | 0.5 |
| Alive | 7 (35.0%) | 4 (66.7%) |  |
| Deceased –> EXIT form | 4 (20.0%) | 1 (16.7%) |  |
| NA | 9 (45.0%) | 1 (16.7%) |  |
| **Tuberculosis** | 15 (75.0%) | 5 (83.3%) | >0.9 |
| **Cryptococcus neoformans** | 9 (45.0%) | 1 (16.7%) | 0.4 |
| **Pneumonia** | 2 (10.0%) | 1 (16.7%) | >0.9 |
| **Staph aureus** | 1 (5.0%) | 0 (0.0%) | >0.9 |
| **Kaposis sarcoma** | 1 (5.0%) | 0 (0.0%) | >0.9 |
| **Cytomegalovirus** | 1 (5.0%) | 0 (0.0%) | >0.9 |
| **HSV** | 1 (5.0%) | 0 (0.0%) | >0.9 |
| **HepB** | 1 (5.0%) | 1 (16.7%) | 0.4 |
| **Candida** | 1 (5.0%) | 0 (0.0%) | >0.9 |
| **GE/c diff** | 0 (0.0%) | 0 (0.0%) |  |
| **Parvo B19** | 1 (5.0%) | 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%) |  |

| Variable | **AI**, N = 26 | **No-AI**, N = 502 | **p-value** |
| --- | --- | --- | --- |
| **Age at enrolment, median (IQR) (years)** | 36 (32, 46) | 36 (31, 43) | 0.5 |
| **Gender, n(%)** |  |  | 0.9 |
| Female | 14 (53.8%) | 255 (50.8%) |  |
| Male | 12 (46.2%) | 244 (48.6%) |  |
| Unknown | 0 (0.0%) | 3 (0.6%) |  |
| **Ethnicity, n(%)** |  |  | 0.4 |
| Black African | 23 (88.5%) | 398 (79.3%) |  |
| Other | 3 (11.5%) | 102 (20.3%) |  |
| Unknown | 0 (0.0%) | 2 (0.4%) |  |
| **Duration of current illness, median (IQR) (days)** | 14 (14, 30) | 14 (12, 21) | 0.6 |
| **Random cortisol** | 313 (252, 380) | 477 (373, 577) | <0.001 |
| **Basal cortisol** | 300 (196, 364) | 466 (356, 572) | <0.001 |
| **Stimulated cortisol** | 391 (321, 441) | 722 (633, 854) | <0.001 |
| **ACTH** | 28 (22, 70) | 32 (20, 48) | 0.6 |
| **BP (systolic)** | 120 (107, 129) | 111 (102, 125) | 0.2 |
| **BP (diastolic)** | 72 (65, 80) | 70 (60, 79) | 0.083 |
| **Heart rate** | 87 (78, 108) | 91 (79, 109) | 0.7 |
| **Hypotension** | 1 (3.8%) | 40 (8.0%) | 0.7 |
| **Weakness** | 21 (80.8%) | 403 (80.3%) | >0.9 |
| **Tiredness** | 23 (88.5%) | 404 (80.5%) | 0.4 |
| **Poor appetite** | 22 (84.6%) | 357 (71.1%) | 0.14 |
| **Weight loss** | 21 (80.8%) | 414 (82.5%) | 0.8 |
| **Increased pigmentation of the skin** | 9 (34.6%) | 232 (46.2%) | 0.2 |
| **Nausea** | 16 (61.5%) | 249 (49.6%) | 0.2 |
| **Vomiting** | 8 (30.8%) | 133 (26.5%) | 0.6 |
| **Liking for salt** | 18 (69.2%) | 256 (51.0%) | 0.070 |
| **Hypoglycaemia** | 0 (0.0%) | 11 (2.2%) | >0.9 |
| **Loss of consciousness** | 0 (0.0%) | 7 (1.4%) | >0.9 |
| **Diarrhoea** | 8 (30.8%) | 205 (40.8%) | 0.3 |
| **Dizziness** | 13 (50.0%) | 222 (44.2%) | 0.6 |
| **Shock** | 0 (0.0%) | 5 (1.0%) | >0.9 |
| **Anorexia** | 8 (30.8%) | 220 (43.8%) | 0.2 |
| **Loss of axillary and pubic hair, if female** |  |  | 0.8 |
| No | 11 (42.3%) | 191 (38.0%) |  |
| Not applicable | 12 (46.2%) | 222 (44.2%) |  |
| Yes | 3 (11.5%) | 89 (17.7%) |  |
| **Any postural drop in blood pressure** | 2 (7.7%) | 16 (3.2%) | 0.2 |
| **Presence of anaemia** | 13 (50.0%) | 273 (54.4%) | 0.7 |
| **Viral load (log10 Copies/mL)** | 11.0 (10.7, 11.3) | 10.7 (7.3, 12.3) | 0.8 |
| **CD4 count** | 26 (13, 50) | 34 (15, 61) | 0.4 |
| **Sodium mmol/L** | 135.0 (133.0, 137.0) | 134.0 (130.0, 137.0) | 0.063 |
| **Potassium mmol/L** | 3.85 (3.30, 4.15) | 4.10 (3.70, 4.60) | 0.039 |
| **Haemoglobin g/dL** | 8.65 (7.62, 10.37) | 8.70 (7.40, 10.33) | 0.9 |
| **White cell count X109** | 4.7 (2.7, 9.8) | 5.4 (3.7, 8.1) | 0.5 |
| **Lymphocyte count X109** | 0.9 (0.5, 1.3) | 0.8 (0.4, 1.8) | 0.7 |
| **Neutrophils** | 1 (1, 2) | 4 (2, 9) | 0.012 |
| **3 followup\_patientstatus** |  |  | 0.12 |
| Alive | 9 (34.6%) | 124 (24.8%) |  |
| Deceased –> EXIT form | 3 (11.5%) | 26 (5.2%) |  |
| NA | 14 (53.8%) | 351 (70.1%) |  |
| **6 followup\_patientstatus** |  |  | 0.045 |
| Alive | 8 (30.8%) | 134 (26.7%) |  |
| Deceased –> EXIT form | 5 (19.2%) | 34 (6.8%) |  |
| NA | 13 (50.0%) | 333 (66.5%) |  |
| **12 followup\_patientstatus** |  |  | 0.065 |
| Alive | 11 (42.3%) | 168 (33.5%) |  |
| Deceased –> EXIT form | 5 (19.2%) | 44 (8.8%) |  |
| NA | 10 (38.5%) | 289 (57.7%) |  |
| **Tuberculosis** | 20 (76.9%) | 425 (84.7%) | 0.3 |
| **Cryptococcus neoformans** | 10 (38.5%) | 20 (4.0%) | <0.001 |
| **Pneumonia** | 3 (11.5%) | 59 (11.8%) | >0.9 |
| **Staph aureus** | 1 (3.8%) | 0 (0.0%) | 0.049 |
| **Kaposis sarcoma** | 1 (3.8%) | 5 (1.0%) | 0.3 |
| **Cytomegalovirus** | 1 (3.8%) | 0 (0.0%) | 0.049 |
| **HSV** | 1 (3.8%) | 7 (1.4%) | 0.3 |
| **HepB** | 2 (7.7%) | 16 (3.2%) | 0.2 |
| **Candida** | 1 (3.8%) | 28 (5.6%) | >0.9 |
| **GE/c diff** | 0 (0.0%) | 18 (3.6%) | >0.9 |
| **Parvo B19** | 1 (3.8%) | 0 (0.0%) | 0.049 |
| **Syphilis** | 0 (0.0%) | 17 (3.4%) | >0.9 |
| **B menigitis** | 0 (0.0%) | 5 (1.0%) | >0.9 |
| **UTI / Leptospirosis** | 0 (0.0%) | 7 (1.4%) | >0.9 |
| **PCP** | 0 (0.0%) | 4 (0.8%) | >0.9 |
| **COVID-19** | 0 (0.0%) | 2 (0.4%) | >0.9 |
| **Neurocysticercosis** | 0 (0.0%) | 2 (0.4%) | >0.9 |

# Dotplot

png 2 png 2 png 2

# Table 3: Bivariate table

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

| Variable | **1**, N = 6 | **0**, N = 58 | **p-value** |
| --- | --- | --- | --- |
| **Age at enrolment median (IQR) (years)** | 41 (33, 46) | 39 (33, 45) | 0.7 |
| **Gender, n(%)** |  |  | >0.9 |
| Female | 3 (50.0%) | 32 (55.2%) |  |
| Male | 3 (50.0%) | 26 (44.8%) |  |
| Unknown | 0 (0.0%) | 0 (0.0%) |  |
| **Ethnicity, n(%)** |  |  | 0.2 |
| Black African | 4 (66.7%) | 50 (86.2%) |  |
| Other | 2 (33.3%) | 8 (13.8%) |  |
| **Duration of current illness, median (IQR) (days)** | NA (NA, NA) | NA (NA, NA) |  |
| **Random cortisol** | 307 (262, 336) | 481 (369, 616) | 0.003 |
| **Basal cortisol** | 308 (246, 365) | 500 (433, 636) | <0.001 |
| **Stimulated cortisol** | 375 (338, 424) | 795 (662, 890) | <0.001 |
| **ACTH** | 42 (26, 78) | 40 (25, 59) | 0.8 |
| **BP (systolic)** | 128 (122, 130) | 110 (102, 120) | 0.051 |
| **BP (diastolic)** | 74 (65, 78) | 70 (66, 80) | >0.9 |
| **Heart rate** | 87 (72, 98) | 93 (82, 109) | 0.2 |
| **Hypotension** | 0 (0.0%) | 7 (12.1%) | >0.9 |
| **Weakness** | 4 (66.7%) | 52 (89.7%) | 0.2 |
| **Tiredness** | 6 (100.0%) | 50 (86.2%) | >0.9 |
| **Poor appetite** | 6 (100.0%) | 49 (84.5%) | 0.6 |
| **Weight loss** | 4 (66.7%) | 50 (86.2%) | 0.2 |
| **Increased pigmentation of the skin** | 2 (33.3%) | 35 (60.3%) | 0.2 |
| **Nausea** | 5 (83.3%) | 36 (62.1%) | 0.4 |
| **Vomiting** | 2 (33.3%) | 15 (25.9%) | 0.7 |
| **Liking for salt** | 4 (66.7%) | 38 (65.5%) | >0.9 |
| **Hypoglycaemia** | 0 (0.0%) | 2 (3.4%) | >0.9 |
| **Loss of consciousness** | 0 (0.0%) | 2 (3.4%) | >0.9 |
| **Diarrhoea** | 1 (16.7%) | 32 (55.2%) | 0.10 |
| **Dizziness** | 3 (50.0%) | 33 (56.9%) | >0.9 |
| **Shock** | 0 (0.0%) | 2 (3.4%) | >0.9 |
| **Anorexia** | 2 (33.3%) | 34 (58.6%) | 0.4 |
| **Loss of axillary and pubic hair, if female** |  |  | 0.8 |
| No | 2 (33.3%) | 16 (27.6%) |  |
| Not applicable | 3 (50.0%) | 23 (39.7%) |  |
| Yes | 1 (16.7%) | 19 (32.8%) |  |
| **Any postural drop in blood pressure** | 0 (0.0%) | 4 (6.9%) | >0.9 |
| **Presence of anaemia** | 3 (50.0%) | 36 (62.1%) | 0.7 |
| **Tuberculosis** | 5 (83.3%) | 47 (81.0%) | >0.9 |
| **Cryptococcus neoformans** | 3 (50.0%) | 3 (5.2%) | 0.009 |
| **Pneumonia** | 0 (0.0%) | 7 (12.1%) | >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** | 0 (0.0%) | 1 (1.7%) | >0.9 |
| **HepB** | 1 (16.7%) | 0 (0.0%) | 0.094 |
| **Candida** | 0 (0.0%) | 4 (6.9%) | >0.9 |
| **GE/c diff** | 0 (0.0%) | 0 (0.0%) |  |
| **Parvo B19** | 0 (0.0%) | 0 (0.0%) |  |
| **Syphilis** | 0 (0.0%) | 2 (3.4%) | >0.9 |
| **B menigitis** | 0 (0.0%) | 1 (1.7%) | >0.9 |
| **UTI / Leptospirosis** | 0 (0.0%) | 1 (1.7%) | >0.9 |
| **PCP** | 0 (0.0%) | 2 (3.4%) | >0.9 |
| **COVID-19** | 0 (0.0%) | 0 (0.0%) |  |
| **Neurocysticercosis** | 0 (0.0%) | 0 (0.0%) |  |
| **Viral load (log10 Copies/mL)** | NA (NA, NA) | 12.00 (10.29, 13.14) |  |
| **Total CD4 count** | 30 (16, 45) | 26 (13, 54) | 0.7 |
| **Sodium mmol/L** | 136.5 (133.3, 139.0) | 133.0 (127.5, 136.0) | 0.2 |
| **Potassium mmol/L** | 3.70 (3.37, 3.88) | 3.90 (3.60, 4.60) | 0.092 |
| **Haemoglobin g/dL** | 9.60 (8.25, 10.95) | 8.35 (7.05, 9.67) | 0.4 |
| **White cell count X109** | 8.3 (4.3, 27.5) | 5.0 (3.4, 7.4) | 0.2 |
| **Lymphocyte count X109** | NA (NA, NA) | 0.80 (0.40, 0.99) |  |

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

| Variable | **yes**, N = 6 | **no**, N = 20 | **p-value** |
| --- | --- | --- | --- |
| **Age at enrolment median (IQR) (years)** | 41 (33, 46) | 36 (33, 44) | 0.7 |
| **Gender, n(%)** |  |  | >0.9 |
| Female | 3 (50.0%) | 11 (55.0%) |  |
| Male | 3 (50.0%) | 9 (45.0%) |  |
| Unknown | 0 (0.0%) | 0 (0.0%) |  |
| **Ethnicity, n(%)** |  |  | 0.12 |
| Black African | 4 (66.7%) | 19 (95.0%) |  |
| Other | 2 (33.3%) | 1 (5.0%) |  |
| **Duration of current illness, median (IQR) (days)** | NA (NA, NA) | NA (NA, NA) |  |
| **Random cortisol** | 307 (262, 336) | 316 (236, 382) | >0.9 |
| **Basal cortisol** | 308 (246, 365) | 292 (184, 355) | 0.6 |
| **Stimulated cortisol** | 375 (338, 424) | 399 (313, 465) | 0.7 |
| **ACTH** | 42 (26, 78) | 26 (20, 66) | 0.6 |
| **BP (systolic)** | 128 (122, 130) | 120 (103, 128) | 0.2 |
| **BP (diastolic)** | 74 (65, 78) | 72 (68, 81) | 0.7 |
| **Heart rate** | 87 (72, 98) | 87 (79, 114) | 0.4 |
| **Hypotension** | 0 (0.0%) | 1 (5.0%) | >0.9 |
| **Weakness** | 4 (66.7%) | 17 (85.0%) | 0.6 |
| **Tiredness** | 6 (100.0%) | 17 (85.0%) | >0.9 |
| **Poor appetite** | 6 (100.0%) | 16 (80.0%) | 0.5 |
| **Weight loss** | 4 (66.7%) | 17 (85.0%) | 0.6 |
| **Increased pigmentation of the skin** | 2 (33.3%) | 7 (35.0%) | >0.9 |
| **Nausea** | 5 (83.3%) | 11 (55.0%) | 0.4 |
| **Vomiting** | 2 (33.3%) | 6 (30.0%) | >0.9 |
| **Liking for salt** | 4 (66.7%) | 14 (70.0%) | >0.9 |
| **Hypoglycaemia** | 0 (0.0%) | 0 (0.0%) |  |
| **Loss of consciousness** | 0 (0.0%) | 0 (0.0%) |  |
| **Diarrhoea** | 1 (16.7%) | 7 (35.0%) | 0.6 |
| **Dizziness** | 3 (50.0%) | 10 (50.0%) | >0.9 |
| **Shock** | 0 (0.0%) | 0 (0.0%) |  |
| **Anorexia** | 2 (33.3%) | 6 (30.0%) | >0.9 |
| **Loss of axillary and pubic hair, if female** |  |  | >0.9 |
| No | 2 (33.3%) | 9 (45.0%) |  |
| Not applicable | 3 (50.0%) | 9 (45.0%) |  |
| Yes | 1 (16.7%) | 2 (10.0%) |  |
| **Any postural drop in blood pressure** | 0 (0.0%) | 2 (10.0%) | >0.9 |
| **Presence of anaemia** | 3 (50.0%) | 10 (50.0%) | >0.9 |
| **Tuberculosis** | 5 (83.3%) | 15 (75.0%) | >0.9 |
| **Cryptococcus neoformans** | 3 (50.0%) | 7 (35.0%) | 0.6 |
| **Pneumonia** | 0 (0.0%) | 3 (15.0%) | >0.9 |
| **Staph aureus** | 0 (0.0%) | 1 (5.0%) | >0.9 |
| **Kaposis sarcoma** | 0 (0.0%) | 1 (5.0%) | >0.9 |
| **Cytomegalovirus** | 0 (0.0%) | 1 (5.0%) | >0.9 |
| **HSV** | 0 (0.0%) | 1 (5.0%) | >0.9 |
| **HepB** | 1 (16.7%) | 1 (5.0%) | 0.4 |
| **Candida** | 0 (0.0%) | 1 (5.0%) | >0.9 |
| **GE/c diff** | 0 (0.0%) | 0 (0.0%) |  |
| **Parvo B19** | 0 (0.0%) | 1 (5.0%) | >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 | 0 (NA%) | 1 (50.0%) |  |
| 11.60516730587 | 0 (NA%) | 1 (50.0%) |  |
| **Total CD4 count** | 30 (16, 45) | 26 (10, 53) | 0.8 |
| **Sodium mmol/L** | 136.5 (133.3, 139.0) | 135.0 (132.8, 136.3) | 0.6 |
| **Potassium mmol/L** | 3.70 (3.37, 3.88) | 3.95 (3.27, 4.58) | 0.4 |
| **Haemoglobin g/dL** | 9.60 (8.25, 10.95) | 8.50 (7.57, 10.22) | 0.4 |
| **White cell count X109** | 8 (4, 27) | 4 (3, 6) | 0.2 |
| **Lymphocyte count X109** |  |  | >0.9 |
| 0.360000014305115 | 0 (NA%) | 1 (16.7%) |  |
| 0.490000009536743 | 0 (NA%) | 1 (16.7%) |  |
| 0.600000023841858 | 0 (NA%) | 1 (16.7%) |  |
| 1.10000002384186 | 0 (NA%) | 1 (16.7%) |  |
| 1.30999994277954 | 0 (NA%) | 1 (16.7%) |  |
| 33.5999984741211 | 0 (NA%) | 1 (16.7%) |  |
| **Addisons disease** |  |  | >0.9 |
| 0 | 0 (0.0%) | 0 (0.0%) |  |
| 1 | 6 (100.0%) | 20 (100.0%) |  |

| **Characteristic** | **N** | **HR** | **95% CI** | **p-value** |
| --- | --- | --- | --- | --- |
| Age\_at\_enrolment | 527 | 1.02 | 0.99, 1.04 | 0.2 |
| Gender | 528 |  |  |  |
| Female |  | — | — |  |
| Male |  | 0.86 | 0.53, 1.41 | 0.6 |
| Unknown |  | 0.00 | 0.00, Inf | >0.9 |
| Ethnicity | 528 |  |  |  |
| Black African |  | — | — |  |
| Other |  | 0.73 | 0.37, 1.43 | 0.4 |
| Unknown |  | 0.00 | 0.00, Inf | >0.9 |
| Random\_cortisol | 425 | 1.00 | 1.00, 1.00 | 0.5 |
| Basal\_cortisol | 148 | 1.00 | 1.00, 1.00 | 0.2 |
| Stimulated\_cortisol | 145 | 1.00 | 1.00, 1.00 | >0.9 |
| ACTH | 425 | 1.01 | 1.00, 1.01 | <0.001 |
| BP\_systolic | 519 | 0.99 | 0.98, 1.01 | 0.3 |
| BP\_diastolic | 519 | 1.01 | 1.00, 1.03 | 0.12 |
| Heart\_rate | 518 | 1.00 | 0.99, 1.02 | 0.4 |
| Hypotension | 528 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 1.48 | 0.68, 3.25 | 0.3 |
| Weakness | 528 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 1.74 | 0.83, 3.65 | 0.14 |
| Tiredness | 528 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 1.68 | 0.80, 3.53 | 0.2 |
| Poor\_appetite | 528 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 2.49 | 1.23, 5.04 | 0.011 |
| Weight\_loss | 528 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 1.15 | 0.58, 2.25 | 0.7 |
| Increased\_pigmentation\_of\_the\_skin | 528 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 1.66 | 1.01, 2.73 | 0.045 |
| Nausea | 528 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 1.83 | 1.10, 3.04 | 0.021 |
| Vomiting | 528 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 1.00 | 0.58, 1.75 | >0.9 |
| Liking\_for\_salt | 528 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 1.83 | 1.09, 3.07 | 0.021 |
| Hypoglycaemia | 528 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 1.50 | 0.37, 6.13 | 0.6 |
| Loss\_of\_consciousness | 528 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 2.60 | 0.64, 10.6 | 0.2 |
| Diarrhoea | 528 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 1.60 | 0.98, 2.62 | 0.059 |
| Dizziness | 528 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 1.65 | 1.01, 2.70 | 0.047 |
| Shock | 528 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 3.82 | 0.93, 15.6 | 0.062 |
| Anorexia | 528 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 1.73 | 1.06, 2.84 | 0.030 |
| Loss\_of\_axillary\_and\_pubic\_hair | 528 |  |  |  |
| No |  | — | — |  |
| Not applicable |  | 1.25 | 0.68, 2.28 | 0.5 |
| Yes |  | 2.58 | 1.36, 4.88 | 0.004 |
| Any\_postural\_drop\_in\_blood\_pressure | 528 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 1.97 | 0.72, 5.42 | 0.2 |
| Presence\_of\_anaemia | 528 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 1.33 | 0.81, 2.20 | 0.3 |
| Tuberculosis | 528 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 0.79 | 0.42, 1.48 | 0.5 |
| Cryptococcus neoformans | 528 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 1.80 | 0.78, 4.17 | 0.2 |
| Pneumonia | 528 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 0.93 | 0.42, 2.04 | 0.9 |
| 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 |  | 0.99 | 0.14, 7.10 | >0.9 |
| HepB | 528 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 0.43 | 0.06, 3.11 | 0.4 |
| Candida | 528 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 1.18 | 0.43, 3.24 | 0.7 |
| 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 |  | 0.92 | 0.23, 3.78 | >0.9 |
| B menigitis | 528 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 1.70 | 0.24, 12.3 | 0.6 |
| UTI / Leptospirosis | 528 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 1.18 | 0.16, 8.51 | 0.9 |
| PCP | 528 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 5.68 | 1.39, 23.2 | 0.016 |
| 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 | 115 | 1.24 | 1.04, 1.49 | 0.019 |
| CD4\_count | 522 | 0.99 | 0.98, 1.00 | 0.2 |
| Sodium | 498 | 1.00 | 0.98, 1.02 | >0.9 |
| Potassium | 496 | 0.98 | 0.94, 1.04 | 0.5 |
| Haemoglobin | 522 | 0.98 | 0.88, 1.10 | 0.8 |
| White\_cell\_count | 518 | 1.00 | 1.00, 1.00 | >0.9 |
| Lymphocyte\_count | 120 | 0.92 | 0.81, 1.06 | 0.3 |
| Addisons\_disease | 528 |  |  |  |
| 0 |  | — | — |  |
| 1 |  | 2.19 | 0.94, 5.07 | 0.068 |

# 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 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 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# Table 5 univariate analysis for addisson’s disease

| **Characteristic** | **N** | **OR** | **95% CI** | **p-value** |
| --- | --- | --- | --- | --- |
| Age\_at\_enrolment | 527 | 0.98 | 0.94, 1.03 | 0.4 |
| Gender | 528 |  |  |  |
| Female |  | — | — |  |
| Male |  | 1.12 | 0.51, 2.50 | 0.8 |
| Unknown |  | 316,115 | 0.00, NA | >0.9 |
| Ethnicity | 528 | 2.01 | 0.70, 8.50 | 0.3 |
| Duration\_of\_current\_illness | 494 | 1.03 | 0.97, 1.30 | 0.7 |
| Random\_cortisol | 425 | 1.11 | 1.07, 1.16 | <0.001 |
| Basal cortisol | 148 | 1.10 | 1.05, 1.15 | <0.001 |
| Stimulated cortisol | 145 | 44,568,772 | 0.00, Inf | >0.9 |
| ACTH | 425 | 0.93 | 0.86, 1.00 | 0.033 |
| BP (systolic) | 519 | 0.99 | 0.97, 1.02 | 0.5 |
| BP (diastolic) | 519 | 0.98 | 0.95, 1.01 | 0.2 |
| Any postural drop in blood pressure | 528 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 0.40 | 0.10, 2.59 | 0.2 |
| Heart rate | 518 | 1.00 | 0.99, 1.02 | 0.7 |
| Hypotension | 528 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 2.16 | 0.44, 39.2 | 0.5 |
| Weakness | 528 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 0.97 | 0.32, 2.45 | >0.9 |
| Tiredness | 528 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 0.54 | 0.13, 1.58 | 0.3 |
| Poor appetite | 528 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 0.45 | 0.13, 1.19 | 0.15 |
| Weight loss | 528 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 1.12 | 0.37, 2.84 | 0.8 |
| Increased pigmentation of the skin | 528 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 1.62 | 0.73, 3.87 | 0.3 |
| Nausea | 528 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 0.62 | 0.26, 1.36 | 0.2 |
| Vomiting | 528 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 0.81 | 0.36, 2.02 | 0.6 |
| Liking for salt | 528 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 0.46 | 0.19, 1.05 | 0.076 |
| Hypoglycaemia | 528 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 2,252,882 | 0.00, NA | >0.9 |
| Loss of consciousness | 528 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 822,092 | 0.00, NA | >0.9 |
| Diarrhoea | 528 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 1.55 | 0.68, 3.85 | 0.3 |
| Dizziness | 528 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 0.79 | 0.36, 1.76 | 0.6 |
| Shock | 528 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 818,783 | 0.00, NA | >0.9 |
| Anorexia | 528 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 1.76 | 0.77, 4.35 | 0.2 |
| Loss of axillary and pubic hair, if female | 528 |  |  |  |
| No |  | — | — |  |
| Not applicable |  | 1.07 | 0.45, 2.48 | 0.9 |
| Yes |  | 1.71 | 0.52, 7.69 | 0.4 |
| Presence of anaemia | 528 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 1.19 | 0.54, 2.65 | 0.7 |
| Viral load (log10 Copies/mL) | 115 | 0.89 | 0.53, 1.33 | 0.6 |
| CD4 count | 522 | 1.03 | 0.96, 1.11 | 0.4 |
| Sodium mmol/L | 498 | 0.83 | 0.66, 1.05 | 0.13 |
| Potassium mmol/L | 496 | 1.04 | 0.88, 1.85 | 0.8 |
| Haemoglobin g/dL | 522 | 1.00 | 0.99, NA | 0.9 |
| White cell count X109 | 518 | 0.99 | 0.98, 1.02 | 0.4 |
| Lymphocyte count X109 | 120 | 1.01 | 0.96, NA | >0.9 |
| Neutrophils | 121 | 95.1 | 1.83, 87,823 | 0.094 |
| 3 followup\_patientstatus | 527 |  |  |  |
| Alive |  | — | — |  |
| Deceased –> EXIT form |  | 0.42 | 0.13, 1.85 | 0.2 |
| 6 followup\_patientstatus | 527 |  |  |  |
| Alive |  | — | — |  |
| Deceased –> EXIT form |  | 0.29 | 0.11, 0.93 | 0.021 |
| NA |  | 0.22 | 0.03, 4.25 | 0.2 |
| 12 followup\_patientstatus | 527 |  |  |  |
| Alive |  | — | — |  |
| Deceased –> EXIT form |  | 0.40 | 0.15, 1.24 | 0.078 |
| NA |  | 0.63 | 0.12, 11.7 | 0.7 |
| Tuberculosis | 528 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 1.66 | 0.59, 4.03 | 0.3 |
| Cryptococcus neoformans | 528 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 0.07 | 0.03, 0.17 | <0.001 |
| Pneumonia | 528 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 1.02 | 0.34, 4.40 | >0.9 |
| Staph aureus | 528 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 0.00 |  | >0.9 |
| Kaposis sarcoma | 528 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 0.25 | 0.04, 4.91 | 0.2 |
| Cytomegalovirus | 528 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 0.00 |  | >0.9 |
| HSV | 528 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 0.35 | 0.06, 6.74 | 0.3 |
| HepB | 528 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 0.40 | 0.10, 2.59 | 0.2 |
| Candida | 528 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 1.48 | 0.30, 26.9 | 0.7 |
| GE/c diff | 528 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 2,285,465 | 0.00, NA | >0.9 |
| Parvo B19 | 528 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 0.00 |  | >0.9 |
| Syphilis | 528 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 2,280,753 | 0.00, NA | >0.9 |
| B menigitis | 528 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 818,783 | 0.00, NA | >0.9 |
| UTI / Leptospirosis | 528 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 822,092 | 0.00, NA | >0.9 |
| PCP | 528 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 817,139 | 0.00, NA | >0.9 |
| COVID-19 | 528 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 299,406 | 0.00, NA | >0.9 |
| Neurocysticercosis | 528 |  |  |  |
| FALSE |  | — | — |  |
| TRUE |  | 299,406 | 0.00, NA | >0.9 |

iter imp variable 1 1 BP\_diastolic Sodium Lymphocyte\_count Neutrophils Duration\_of\_current\_illness Age\_at\_enrolment 1 2 BP\_diastolic Sodium Lymphocyte\_count Neutrophils Duration\_of\_current\_illness Age\_at\_enrolment 1 3 BP\_diastolic Sodium Lymphocyte\_count Neutrophils Duration\_of\_current\_illness Age\_at\_enrolment 1 4 BP\_diastolic Sodium Lymphocyte\_count Neutrophils Duration\_of\_current\_illness Age\_at\_enrolment 1 5 BP\_diastolic Sodium Lymphocyte\_count Neutrophils Duration\_of\_current\_illness Age\_at\_enrolment 2 1 BP\_diastolic Sodium Lymphocyte\_count Neutrophils Duration\_of\_current\_illness Age\_at\_enrolment 2 2 BP\_diastolic Sodium Lymphocyte\_count Neutrophils Duration\_of\_current\_illness Age\_at\_enrolment 2 3 BP\_diastolic Sodium Lymphocyte\_count Neutrophils Duration\_of\_current\_illness Age\_at\_enrolment 2 4 BP\_diastolic Sodium Lymphocyte\_count Neutrophils Duration\_of\_current\_illness Age\_at\_enrolment 2 5 BP\_diastolic Sodium 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Call: glm(formula = AI ~ Duration\_of\_current\_illness + Lymphocyte\_count + Tuberculosis, family = binomial(link = “logit”), data = bind\_cols(table\_3 %>% dplyr::select(mortality, ttdeath, AI\_recoded, Gender, Ethnicity), aggregate(complete(imputedData, “long”)[, 3:15], by = list(complete(imputedData, “long”)$.id), FUN = mean)) %>% mutate(AI = ifelse(AI\_recoded…3 == “AI”, 1, 0)))

Coefficients: Estimate Std. Error z value Pr(>|z|)  
(Intercept) -2.44455 0.45970 -5.318 1.05e-07 \*\*\* Duration\_of\_current\_illness -0.29395 0.93008 -0.316 0.752  
Lymphocyte\_count -0.04658 0.08277 -0.563 0.574  
Tuberculosis -0.49692 0.48244 -1.030 0.303  
— Signif. codes: 0 ‘***’ 0.001 ’****’ 0.01 ’*’ 0.05 ‘.’ 0.1 ’ ’ 1

(Dispersion parameter for binomial family taken to be 1)

Null deviance: 207.27 on 527 degrees of freedom

Residual deviance: 205.37 on 524 degrees of freedom AIC: 213.37

Number of Fisher Scoring iterations: 7