

**Table S1.** Baseline physiologic and clinical laboratory parameters by site at enrollment.

<b>Parameter</b>	<b>Total Median (IQR)</b>	<b>Takeo, Cambodia Median (IQR)</b>	<b>Durham, USA Median (IQR)</b>	<b>Kumasi, Ghana Median (IQR)</b>
<b>Physiologic parameters</b>				
Respiratory rate (breaths per minute)	24 (20, 30)	24 (20, 28)	24 (20, 31)	26 (22, 30)
Systolic blood pressure (mmHg)	120 (100, 130)	110 (100, 130)	113 (96, 129)	127.5 (110, 140)
Diastolic blood pressure (mmHg)	70 (60, 80)	70 (70, 80)	64 (56, 75)	80 (60, 90)
Oxygen saturation (%)	97 (94, 98)	98 (96, 98)	95 (92, 97.5)	97 (95, 98)
Temperature (°C)	37.9 (37, 38.7)	37.5 (37, 38.5)	38.1 (36.9, 38.89)	38.2 (37.4, 38.8)
Heart rate (beats per minute)	105 (94, 118)	96 (86.5, 105.5)	111 (99.5, 124)	111 (99, 118)
<b>Clinical laboratory parameters</b>				
White blood cells (x10 <sup>9</sup> cells/L)	12.05 (8.13, 16.6)	11.9 (8.2, 16.6)	13.35 (9.7, 17.6)	10.76 (7.68, 15.41)
Platelets (x10 <sup>9</sup> cells/L)	222 (152.5, 321.5)	262 (169, 366)	236.5 (160, 291)	193 (137, 284)
Sodium (mEq/L)	135 (132, 138)	135 (131, 138)	137 (134, 139)	134 (130, 138)
Potassium (mEq/L)	3.7 (3.3, 4.2)	3.7 (3.2, 4.1)	3.9 (3.5, 4.3)	3.6 (3.2, 4)
Sodium Bicarbonate (mmol/L)	24 (21, 26)	24 (22, 27)	25 (22, 27)	22 (19, 25)
Glucose (mg/dL)	6.56 (5.4, 10)	6.44 (5.39, 8.28)	6.69 (5.67, 10.06)	6.65 (5.2, 12)
Blood Urea Nitrogen (mg/dL)	5 (3.57, 7.9)	4.29 (3.21, 5.71)	5.71 (3.57, 10)	5.4 (3.5, 9.4)
Creatinine (mg/dL)	88.42 (66, 130)	79.58 (53.05, 88.42)	106.1 (70.74, 150.31)	91 (70, 135)
Alkaline Phosphatase (U/L)	86.5 (65, 132)	98.5 (72, 172)	80 (63, 106)	85 (63, 125)
Alanine Transaminase (U/L)	32 (22, 58)	46 (27, 86)	22 (18, 40)	29 (22, 48)
Aspartate Aminotransferase (U/L)	42 (27, 76)	61 (38, 117)	29 (21, 45)	35.5 (25, 65)
Bilirubin (mg/dL)	15 (10.26, 21)	13.68 (10.26, 20.52)	15.39 (10.26, 20.52)	15 (11, 23)

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<b>Parameter</b>	<b>Total Median (IQR)</b>	<b>Takeo, Cambodia Median (IQR)</b>	<b>Durham, USA Median (IQR)</b>	<b>Kumasi, Ghana Median (IQR)</b>
Albumin (g/dL)	3.0 (2.5, 3.5)	2.9 (2.5, 3.4)	3.0 (2.5, 3.5)	3.0 (2.3, 3.6)
Total protein (g/dL)	73 (65, 79)	74 (68, 79.5)	67 (57, 72)	75 (69, 83)
Lactate (mmol/L)	2.27 (1.66, 3.09)	2.33 (1.79, 3.03)	1.5 (1, 2.4)	2.54 (1.8, 3.42)

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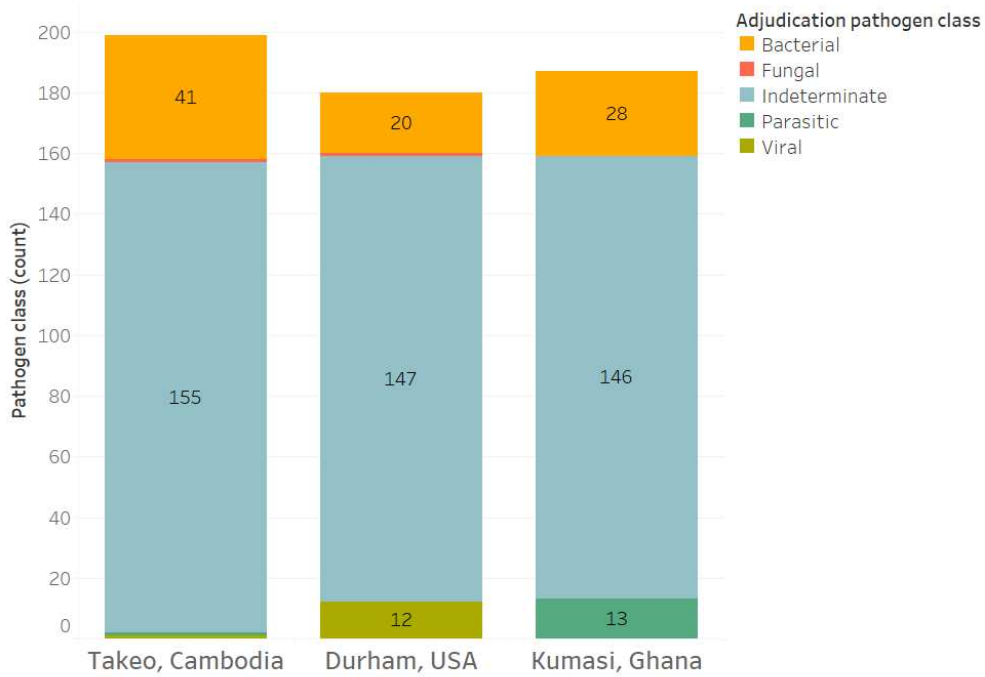
*\*All variables are presented as median, interquartile range*

**Table S2.** Performance characteristics of sepsis score across Cambodia and Ghana sites combined for predicting 28-day mortality.

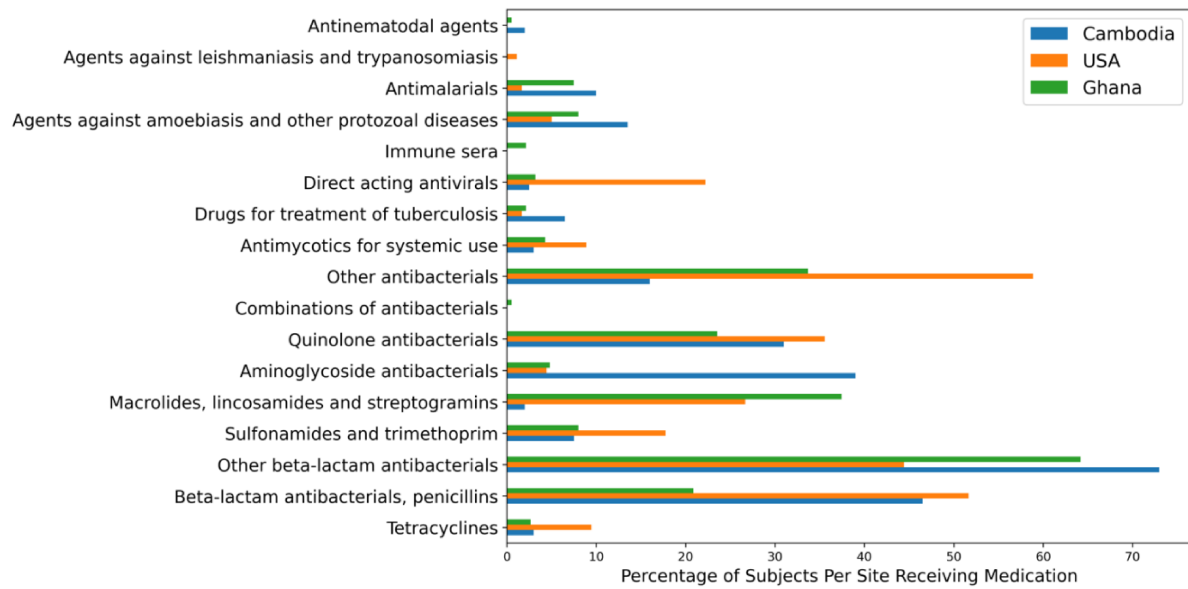
Score	Sensitivity (95% CI)	Specificity (95% CI)	PPV (95% CI)	NPV (95% CI)	Unadjusted Bivariate Cox model C-statistic (95% CI)	Adjusted* Cox model C-statistic (95% CI)	p-value
<b>Baseline</b>						0.60 (0.54 – 0.66)	
<b>MEWS <math>\geq 4</math></b>	0.74 (0.64 – 0.84)	0.50 (0.44–0.56)	0.28 (0.25 – 0.32)	0.88 (0.84 – 0.92)	0.62 (0.57 – 0.66)	0.66 (0.61 – 0.72)	<b>&lt;0.001</b>
<b>NEWS <math>\geq 5</math></b>	0.85 (0.75–0.92)	0.46 (0.38–0.52)	0.33 (0.29–0.36)	0.91 (0.85 – 0.94)	0.65 (0.62 – 0.70)	0.70 (0.65 – 0.76)	<b>0.001</b>
<b>qSOFA <math>\geq 2</math></b>	0.54 (0.42 – 0.65)	0.84 (0.80 – 0.88)	0.47 (0.39 – 0.55)	0.87 (0.84 – 0.90)	0.67 (0.62 – 0.73)	0.71 (0.66–0.77)	<b>&lt;0.001</b>
<b>SIRS <math>\geq 2</math></b>	0.88 (0.78 = 0.94)	0.24 (0.19 (0.30)	0.23 (0.21 – 24)	0.89 (0.81 – 0.94)	0.55 (0.51 – 0.59)	0.61 (0.55 – 0.67)	0.066
<b>UVA <math>\geq 2</math></b>	0.75 (0.65 – 0.84)	0.74 (0.70 – 0.80)	0.45 (0.40 - 0.52)	0.92 (0.88 - 0.94)	0.73 (0.68 – 0.77)	0.76 (0.71–0.81)	<b>&lt;0.001</b>

**Table S3.** Performance characteristics of sepsis score across the United States site for predicting 28-day mortality.

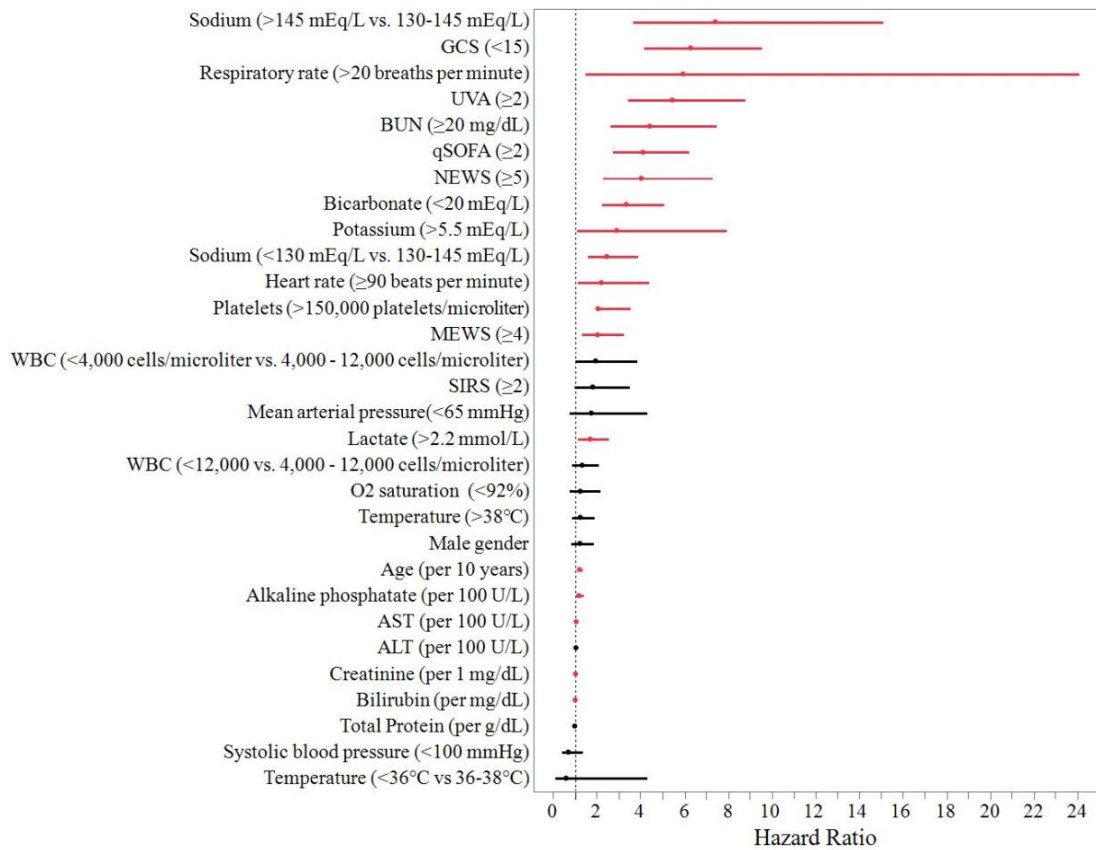
<b>Score</b>	<b>Sensitivity (95% CI)</b>	<b>Specificity (95% CI)</b>	<b>PPV (95% CI)</b>	<b>NPV (95% CI)</b>	<b>Unadjusted Bivariate Cox model C-statistic (95% CI)</b>	<b>Adjusted* Cox model C-statistic (95% CI)</b>	<b>p-value</b>
<b>Baseline (age +sex)</b>						0.61 (0.52 – 0.66)	
<b>MEWS<math>\geq</math>4</b>	0.60 (0.26-0.87)	0.33 (0.26 – 0.41)	0.05 (0.03 – 0.09)	0.92 (0.85 – 0.96)	0.53 (0.38 – 0.67)	0.68 (0.57 – 0.79)	0.743
<b>NEWS<math>\geq</math>5</b>	0.90 (0.56 – 0.99)	0.37 (0.29 – 0.45)	0.09 (0.07 – 0.11)	0.98 (0.89-0.99)	0.63 (0.54 - 0.71)	0.71 (0.59-0.84)	0.256
<b>qSOFA <math>\geq</math>2</b>	0.60 (0.26 - 87)	0.72 (0.65 – 0.79)	0.13 (0.08 - 0.20)	0.96 (0.93 – 0.98)	0.66 (0.51 – 0.81)	0.71 (0.54 – 0.89)	0.019
<b>SIRS <math>\geq</math>2</b>	0.92 (0.64 - 0.99)	0.11 (0.07 – 0.16)	0.08 (0.07 – 0.09)	0.94 (0.72 – 0.99)	0.51 (0.45 – 0.58)	0.66 (0.54 – 0.82)	0.694
<b>UVA<math>\geq</math>2</b>	0.60 (0.26 – 0.88)	0.58 (0.50 – 0.66)	0.09 (0.05 -0.14)	0.95 (0.90 -0.98)	0.59 (0.44 – 0.73)	0.70 (0.50 – 0.87)	0.281



**Supplementary Figure S1.** Distribution of adjudicated pathogen class for each site.



**Supplementary Figure S2.** Prevalence of antibiotics received per site.



**Supplementary Figure S3.** Forest plot of hazard ratios from bivariate Cox regression models for risk of death at 28-day for sepsis scores, physiologic parameters, and clinical laboratory parameters.