

Additional file 1 Measured test performance levels and their 95% confidence intervals (CI).

Dispatch category	Over-triage		Under-triage		Efficiency		Sensitivity		Specificity		PPV		NPV	
	%	95% CI	%	95% CI	%	95% CI	%	95% CI	%	95% CI	%	95% CI	%	95% CI
General weakness	81	78.9 – 83.7	2.1	1.2 – 3.0	87	84.6 – 88.8	59	56.0 – 62.2	88	85.9 – 90.0	19	16.3 – 21.1	98	97.0 – 98.8
Fall	79	75.9 – 81.3	1.9	1.0 – 2.8	84	81.8 – 86.6	71	67.8 – 73.8	85	82.7 – 87.4	21	18.7 – 24.1	98	97.2 – 99.0
Chest pain	80	76.5 – 82.8	4.3	2.8 – 5.9	34	30.4 – 37.8	95	93.8 – 97.1	21	17.9 – 24.3	20	17.2 – 23.5	96	94.1 – 97.2
Breathing difficulty	72	67.1 – 75.9	4.5	2.5 – 6.5	65	60.2 – 69.5	84	80.6 – 87.7	61	56.6 – 66.1	28	24.1 – 32.9	95	93.5 – 97.5
Psychiatric symptom	N.A.	0.0 – 0.0	5.8	3.3 – 8.4	94	91.6 – 96.7	0	0.0 – 0.0	100	100.0 – 100.0		0.0 – 0.0	94	91.6 – 96.7
Rhythm disorder	81	76.4 – 85.1	0.9	0.0 – 1.9	78	73.4 – 82.6	89	85.4 – 92.4	77	72.7 – 82.0	19	14.9 – 23.6	99	98.1 – 100.0
Stroke	74	69.1 – 78.9	3.6	1.5 – 5.7	39	33.4 – 44.4	97	95.1 – 98.9	23	17.9 – 27.3	26	21.1 – 30.9	96	94.3 – 98.5
Abdominal pain	68	62.2 – 73.1	2.0	0.4 – 3.6	90	86.8 – 93.7	69	63.4 – 74.1	91	88.2 – 94.7	32	26.9 – 37.8	98	96.4 – 99.6
Hospital transport	30	24.4 – 35.6	12.0	8.0 – 16.0	79	74.5 – 84.4	84	79.5 – 88.5	76	71.2 – 81.7	70	64.4 – 75.6	88	84.0 – 92.0
Poisoning	50	43.5 – 56.5	8.6	4.9 – 12.2	76	70.3 – 81.5	78	72.3 – 83.2	75	69.6 – 80.9	50	43.5 – 56.5	91	87.8 – 95.1
Back pain	78	71.8 – 83.8	1.7	0.0 – 3.6	95	91.2 – 97.8	40	32.9 – 47.1	96	93.3 – 98.9	22	16.2 – 28.2	98	96.4 – 100.0
Limb pain	78	71.0 – 84.6	0.7	0.0 – 2.1	94	90.7 – 98.2	67	59.0 – 74.4	95	91.5 – 98.6	22	15.4 – 29.0	99	97.9 – 100.0
Nausea, diarrhoea, constipation	33	25.5 – 41.1	2.2	0.0 – 4.6	97	94.4 – 99.9	40	31.9 – 48.1	99	97.8 – 100.0	67	58.9 – 74.5	98	95.4 – 100.0
Convulsion	64	55.5 – 71.6	3.8	0.6 – 7.1	59	50.9 – 67.4	94	89.9 – 97.9	48	39.7 – 56.4	36	28.4 – 44.5	96	92.9 – 99.4
Headache	85	78.1 – 91.5	3.1	0.0 – 6.4	63	53.7 – 71.8	78	70.0 – 85.5	61	52.3 – 70.5	15	8.5 – 21.9	97	93.6 – 100.0
Traffic accident, bicycle etc.	68	59.4 – 76.9	0.0	0.0 – 0.0	72	64.1 – 80.9	100	100.0 – 100.0	68	59.7 – 77.1	32	23.1 – 40.6	100	100.0 – 100.0
Unconscious	58	47.8 – 67.3	N.A.	0.0 – 0.0	42	32.7 – 52.2	100	100.0 – 100.0	0	0.0 – 0.0	42	32.7 – 52.2		0.0 – 0.0
Traffic accident, small	83	75.9 – 90.7	2.3	0.0 – 5.3	53	42.6 – 62.5	90	84.0 – 96.0	48	38.3 – 58.2	17	9.3 – 24.1	98	94.7 – 100.0
Impact/hit	80	71.5 – 89.4	0.0	0.0 – 0.0	51	40.1 – 62.6	100	100.0 – 100.0	45	33.6 – 56.0	20	10.6 – 28.5	100	100.0 – 100.0
Unspecific symptoms	88	80.6 – 95.4	N.A.	0.0 – 0.0	12	4.6 – 19.4	100	100.0 – 100.0	0	0.0 – 0.0	12	4.6 – 19.4		0.0 – 0.0
Blood glucose problem	68	57.9 – 78.9	5.4	0.3 – 10.5	79	69.4 – 87.9	67	56.0 – 77.3	80	71.3 – 89.3	32	21.1 – 42.1	95	89.5 – 99.7
Cut	70	58.5 – 80.6	0.0	0.0 – 0.0	76	65.9 – 86.3	100	100.0 – 100.0	73	62.7 – 83.9	30	19.4 – 41.5	100	100.0 – 100.0
Allergic reaction	80	70.3 – 89.7	0.0	0.0 – 0.0	45	32.5 – 56.7	100	100.0 – 100.0	36	24.1 – 47.4	20	10.3 – 29.7	100	100.0 – 100.0
Body pain	100	100.0 – 100.0	7.3	0.6 – 13.9	86	77.7 – 95.2	0	0.0 – 0.0	93	86.1 – 99.4	0	0.0 – 0.0	93	86.1 – 99.4
Assault	100	100.0 – 100.0	0.0	0.0 – 0.0	93	85.6 – 99.6		0.0 – 0.0	93	85.6 – 99.6	0	0.0 – 0.0	100	100.0 – 100.0
Cardiac arrest	8	0.7 – 15.9	0.0	0.0 – 0.0	92	84.8 – 99.5	100	100.0 – 100.0	43	29.3 – 56.4	92	84.1 – 99.3	100	100.0 – 100.0

PPV: Positive predictive value; NPV: Negative predictive value; N.A.: Not available