

Appendix 1: Description of collection and categorizing of variables.

DATA COLLECTION

Age and sex

Age and sex of the patient are checked with the identity card of the patient.

Triage category and chief complaint

All patients are triaged upon ED arrival by an ED-nurse according to the Manchester Triage System (MTS)[1].

The MTS consists of 52 presenting complaints to determine the patients acuity. Per presenting complaint, key questions further specify the patients acuity. Finally, questions and measurements using the ABCDE

assessment are used to determine the definitive triage category. The most urgent category (red), needing immediate care, were excluded. In order of urgency the next categories are: orange (care <10 minutes), yellow (care <1 hour), green (care <2 hours), blue (care < 4 hours). For example, the presenting complaint fever would become yellow, but if the patient has an oxygen saturation less than 90% it would become orange or even red.

The chief complaint was assessed using one of 52 categories available in the MTS and grouped into nine categories for analysis (appendix 2).

Mode of arrival

Patients were divided into three groups of arrival: self-referral, referred by a physician (general practitioner or medical specialist), or ambulance. When a patient was referred by a doctor, but travelled to the ED by ambulance this was categorized as 'Ambulance'. Transfers to our ED from other hospitals were also in this category.

Type of specialist

Type of specialist that the patient was assigned to was categorized into surgical (for example: surgery, orthopedics, urology) or medical (for example: internal medicine, neurology, cardiology, pulmonology).

Revisit within 30 days

From the electronic patient files data was derived as to whether the patient visited our ED within 30 days prior to the included visit. The variable 'revisit within 30 days' indicates that the index visit is their second visit within 30 days prior to the index visit.

Drawing of blood

The nurse caring for the patient draws blood according to protocol and the chief complaint, in consultation

with the responsible physician. The decision to draw blood is made as soon as possible after the arrival of the patient, often within minutes. If no laboratory results were noted in the electronic patient file from the day of the ED visit, this was categorized as 'no phlebotomised blood sample'.

Vital signs

The nurse caring for the patient measures vital signs according to protocol and chief complaint, in consultation with the responsible physician. Oxygen saturation, blood pressure, respiratory rate and heart rate were measured using a medical monitor (IntelliVue MP50®, Amsterdam, The Netherlands) and manually registered into the patient file. Temperature was measured using a tympanic thermometer (Genius 2®, Mansfield, U.S.) and manually registered. The categories for vital parameters were selected according to the Modified Early Warning Score (MEWS)[2], with categories containing less than 1% of patients being merged. Missing vital signs were not imputed, but analyzed alongside registered data because a valid measurement also indicates necessity. Besides the indication for a measurement, we assessed whether the vital sign was considered too high or too low according to MEWS.

References:

1. Azeredo TR, Guedes HM, Rebelo de Almeida RA, et al. Efficacy of the Manchester Triage System: a systematic review. *International emergency nursing* 2015;**23**(2):47-52 doi: 10.1016/j.ienj.2014.06.001[published Online First: Epub Date] |.
2. Subbe CP, Kruger M, Rutherford P, et al. Validation of a modified Early Warning Score in medical admissions. *QJM : monthly journal of the Association of Physicians* 2001;**94**(10):521-6

Appendix 2: Categories of presenting complaints

CATEGORIES OF PRESENTING COMPLAINTS

9 groups of presenting complaints.

1. Minor trauma injuries
2. Major trauma injuries
3. Chest pain
4. Dyspnea
5. Syncope
6. Mental Health Problems
7. Malaise
8. Abdominal Pain
9. Others

52 possible flowcharts of Manchester Triage System re-categorized in 9 groups of presenting complaints:

- | | |
|-----------------------------------|----------------------------|
| 1. Abdominal pain in adults | Abdominal pain (8) |
| 2. Abdominal pain in children | Irrelevant |
| 3. Abscesses and local infections | Minor trauma injuries (1) |
| 4. Allergy | Others (9) |
| 5. Apparently drunk | Others (9) |
| 6. Assault | Minor Trauma Injuries (1) |
| 7. Asthma | Dyspnea (4) |
| 8. Back pain | Others (9) |
| 9. Behaving strangely | Mental Health Problems (6) |
| 10. Bites and stings | Minor trauma injuries (1) |
| 11. Burns and scalds | Minor trauma injuries (1) |
| 12. Chest pain | Chest Pain (3) |
| 13. Collapsed adult | Loss of consciousness (5) |
| 14. Crying baby | Irrelevant |

15. Dental problems	Minor Trauma Injuries (1)
16. Diabetes	Others (9)
17. Diarrhea and vomiting	Abdominal pain (8)
18. Ear problems	Others (9)
19. Exposure to chemicals	Minor Trauma Injuries (1)
20. Facial problems	Minor Trauma Injuries (1)
21. Falls	Minor Trauma Injuries (1)
22. Fits	Loss of consciousness (5)
23. Foreign body	Minor Trauma Injuries (1)
24. GI bleeding	Abdominal pain (8)
25. Headache	Others (9)
26. Head injury	Minor trauma Injuries (1)
27. Irritable child	Irrelevant
28. Limb problems	Minor Trauma Injuries (1)
29. Limping child	Irrelevant
30. Major trauma	Major Trauma Injuries (2)
31. Mental illness	Mental Health Problems (6)
32. Neck pain	Others (9)
33. Overdose and poisoning	Mental Health Problems (6)
34. Palpitations	Chest pain (3)
35. Pregnancy	Others (9)
36. Psychiatric illness	Mental Health Problems (6)
37. PV bleeding	Others (9)
38. Rashes	Others (9)
39. Self-harm	Mental Health Problems (6)
40. Sexually acquired infection	Others (9)
41. Shortness of breath in adults	Dyspnea (4)
42. Shortness of breath in children	Irrelevant
43. Sore throat	Others (9)

44. Testicular pain	Others (9)
45. Torso injury	Minor Trauma Injuries (1)
46. Unwell adult	Malaise (7)
47. Unwell child	Irrelevant
48. Urinary problems	Others (9)
49. Worried parent	Others (9)
50. Wounds	Minor Trauma Injuries (1)
51. Major incidents-primary	Major Trauma injuries (2)
52. Major incidents secondary	Major Trauma injuries (2)

Supplemental table 1. Comparing baseline characteristics for age groups between derivation and validation cohorts

Baseline features	Derivation	Validation	P value	Derivation	Validation	P value
	<70 years n=8728	<70 years n=8411		≥70 years n=2079	≥70 years n=2069	
Age, median IQR	44.8 (28.8-57.4)	44.8 (28.4-58.0)	0.870	78.1 (73.9-83.6)	78.9 (73.9-83.0)	0.178
Male, n (%)	4762 (54.6)	4597 (54.7)	0.901	995 (47.9)	1044 (50.5)	0.094
Triage category, n (%)			0.049			0.130
<10 minutes	1921 (22.0)	1893 (22.5)		657 (31.6)	683 (33.0)	
<1 hour	3567 (40.9)	3557 (42.3)		943 (45.4)	966 (46.7)	
<2 hour	3205 (36.7)	2921 (34.7)		472 (22.7)	410 (19.8)	
<4 hours	35 (0.4)	40 (0.5)		7 (0.3)	10 (0.5)	
Arrival mode, n (%)			<0.001			<0.001
Self-referral	4258 (48.8)	3794 (45.1)		467 (22.5)	404 (19.5)	
Ambulance/other institution	1316 (15.1)	1659 (19.7)		596 (28.7)	833 (40.3)	
Referred by GP/specialist	3154 (36.1)	2958 (35.2)		1016 (48.9)	832 (40.2)	
Type of specialist			0.336			1.0
Medicine	3809 (43.6)	3732 (44.4)		1251 (60.2)	1245 (60.2)	
Surgery	4919 (56.4)	4679 (55.6)		828 (39.8)	824 (39.8)	
Revisit to the ED, n (%)						
Visit <30 days	922 (10.6)	873 (10.4)	0.693	247 (11.9)	243 (11.7)	0.892
Chief complaint¹			0.040			0.263
Minor trauma	3656 (42.2)	3301 (39.6)		621 (30.1)	641 (31.2)	
Major trauma	183 (2.1)	208 (2.5)		32 (1.5)	28 (1.4)	
Chest pain	980 (11.3)	992 (11.9)		302 (14.6)	329 (16.0)	
Dyspnea	426 (4.9)	394 (4.7)		221 (10.7)	179 (8.7)	
Syncope	219 (2.5)	241 (2.9)		118 (5.7)	100 (4.9)	
Psychiatric complaints	219 (2.5)	230 (2.8)		34 (1.6)	26 (1.3)	
Malaise	1032 (11.9)	1034 (12.4)		377 (18.3)	403 (19.6)	
Abdominal pain	935 (10.7)	922 (11.1)		183 (8.9)	183 (8.9)	
Other	1018 (11.7)	1019 (12.2)		177 (8.6)	164 (8.0)	
Vital signs						
Systolic BP, mmHg ²	136 (21.4)	135 (21.5)	0.021	145 (27)	145 (28)	0.566
O ₂ saturation, % ³ median, IQR	98 (98-100)	99 (97-100)	<0.001	98 (96-100)	98 (96-99)	0.100
Temperature, °C ⁴	37.0 (0.8)	37.0 (0.8)	0.065	36.9 (1.0)	36.9 (0.9)	0.913
Respiratory rate, /min ⁵	17.6 (4.6)	17.6 (4.8)	0.875	18.7 (5.5)	18.6 (5.4)	0.666
Heart rate, /min ⁶	86 (20)	86 (21)	0.783	84 (20)	84 (21)	0.982
Performed test, n (%)						
Phlebotomised blood sample	4714 (54.0)	4583 (54.5)	0.530	1606 (77.2)	1599 (77.3)	0.979

a) Values are mean, standard deviation unless noted otherwise.

b) Abbreviations: SD: standard deviation. n: number, IQR: interquartile range, GP: general practitioner, min: minute

c) Vital parameters measured are: O₂: oxygen saturation, measured in percentage oxygenated haemoglobin. Systolic BP: Systolic blood pressure, measured in millimetres of mercury. Temperature measured in degrees Celsius. Heart rate and respiratory rate are measured as times per minute.

d) Number of measured values per age group.

<70 years: 1:n=17009, 2:n=9924, 3:n=10018, 4:n=9953, 5:n=5807, 6:n=10371

≥70 years: 1:n=4118, 2:n=3232, 3:n=3208, 4:n=2890, 5:n=2302, 6:n=3292

e) P values are measured by t-test for scale values and chi-square for categorical values. Mann-Whitney U test for non-parametric variables.

Supplemental table 2: Univariable association of predictors of hospitalization of patients aged younger and older than 70 years at the emergency department – derivation cohort

Predictor	< 70 years n=8728			≥ 70 years n=2079			P for interaction		
	n (%)	OR	95%CI	n (%)	OR	95% CI			
Age/10		1.42	1.37	1.47		1.06	0.93	1.22	
Sex									0.071
Male	4762 (54.6)	1.11	1.00	1.22	995 (47.9)	1.33	1.12	1.58	
Female	3966 (45.4)	ref	ref	ref	1084 (52.1)	ref	ref	ref	
Triage category									<0.001
>1 hour	3240 (37.1)	ref	ref	ref	479 (23.0)	ref	ref	ref	
< 1 hour	3567 (40.9)	5.55	4.73	6.52	943 (45.4)	3.03	2.34	3.92	
< 10 min	1921 (22.0)	12.13	10.24	14.36	657 (31.6)	5.57	4.25	7.31	
Arrival mode									<0.001
Self- referral	4258 (48.8)	ref	ref	ref	467 (22.4)	ref	ref	ref	
Referred	3154 (36.1)	2.28	2.03	2.56	1016 (48.9)	1.33	1.06	1.67	
Ambulance	1316 (15.1)	4.08	3.55	4.70	596 (28.7)	1.99	1.55	2.55	
Chief Complaint									<0.001
Minor trauma	3656 (42.2)	ref	ref	ref	321 (30.1)	ref	ref	ref	
Major trauma	183 (2.1)	9.15	6.67	12.55	32 (1.5)	5.28	2.49	11.18	
Chest pain	980 (11.3)	3.33	2.75	4.04	302 (14.6)	1.12	0.82	1.52	
Dyspnea	426 (4.9)	9.31	7.42	11.67	221 (10.7)	3.80	2.76	5.24	
Syncope	219 (2.5)	6.52	4.82	8.81	119 (5.7)	2.33	1.56	3.49	
Psychiatric	219 (2.5)	8.54	6.36	11.46	34 (1.6)	4.46	2.19	9.12	
Malaise	1032 (11.9)	11.34	9.55	13.46	377 (18.3)	4.90	3.72	6.45	
Abdominal pain	935 (10.8)	6.83	5.70	8.17	183 (8.9)	3.48	2.47	4.90	
Other	1018 (11.7)	3.14	2.59	3.80	177 (8.6)	2.08	1.47	2.94	
Type of specialist									<0.001
Medicine	3809 (43.6)	3.83	3.44	4.26	1251 (60.2)	2.44	2.03	2.94	
Surgery	4919 (56.4)	ref	ref	ref	828 (39.8)	ref	ref	ref	
Revisit to the ED	922 (10.6)	1.99	1.72	2.31	247 (11.9)	1.51	1.16	1.97	0.074
Phlebotomised blood sample	4714 (54.0)	14.74	12.49	17.38	1606 (77.2)	12.80	9.09	18.02	0.467
Oxygen saturation									0.005
≤ 90%	57 (0.7)	4.19	2.39	7.35	53 (2.5)	6.93	3.11	15.45	
91-94%	188 (2.2)	2.91	2.16	3.92	126 (6.1)	2.19	1.48	3.22	
≥95%	4755 (54.5)	ref	ref	ref	1403 (67.5)	ref	ref	ref	
Missing	3728 (42.7)	0.13	0.12	0.15	497 (23.9)	0.21	0.17	0.28	
Systolic BP									0.007
≤100	146 (1.7)	2.96	2.11	4.15	61 (2.9)	2.27	1.30	3.97	
101-199	4813 (55.1)	ref	ref	ref	1468 (70.6)	ref	ref	ref	
>200	47 (0.5)	1.76	0.99	3.13	60 (2.9)	0.89	0.53	1.49	
Missing	3722 (42.6)	0.11	0.09	0.13	490 (23.6)	0.17	0.13	0.22	
Temperature									0.004
≤35.0	36 (0.4)	2.68	1.39	5.19	22 (1.1)	1.83	0.76	4.39	
35.1-38.4	4471 (51.2)	ref	ref	ref	1307 (62.9)	ref	ref	ref	
≥38.5	288 (3.3)	7.51	5.65	9.99	105 (5.1)	7.40	4.10	13.36	
Missing	3933 (45.1)	0.21	0.18	0.24	645 (31.0)	0.33	0.26	0.40	
Heart rate									
≤50	63 (0.7)	0.80	0.46	1.40	31 (1.5)	1.87	0.89	3.93	

51 - 100	4098 (47.0)	ref	ref	ref	1308 (62.9)	ref	ref	ref	
101 -110	456 (5.2)	1.85	1.52	2.25	115 (5.5)	1.72	1.16	2.55	
111-129	395 (4.5)	2.51	2.04	3.09	95 (4.6)	1.76	1.15	2.71	
≥130	166 (1.9)	3.05	2.22	4.18	65 (3.1)	1.06	0.64	1.74	
Missing	3550 (40.7)	0.12	0.10	0.14	465 (22.4)	0.18	0.13	0.23	
Respiratory rate									0.048
≤8	8 (0.1)	1.12	0.26	4.70	3 (0.1)	2.16	0.19	24.12	
9-14	726 (8.3)	ref	ref	ref	237 (11.4)	ref	ref	ref	
15-20	1566 (17.9)	1.09	0.91	1.31	584 (28.1)	1.04	0.77	1.40	
21-29	517 (5.9)	1.78	1.42	2.24	273 (13.1)	1.96	1.37	2.79	
≥30	78 (0.9)	8.50	4.67	15.45	57 (2.7)	6.61	3.00	14.56	
Missing	5833 (66.8)	0.32	0.27	0.38	925 (44.5)	0.45	0.33	0.60	

a) Abbreviations: n: number, OR: odds ratio, 95%CI: 95% confidence interval. AUC: Area Under The Curve

b) Age in years divided by ten.

c) Vital parameters measured are: oxygen saturation, measured in percentage oxygenated hemoglobin. Systolic BP: Systolic blood pressure, measured in millimeters of mercury. Temperature measured in degrees Celsius. Heart rate and respiratory rate are measured as times per minute.

d) P-for interaction

Supplemental table 3: Complete multivariable model of hospitalization of patients at the Emergency Department – derivation cohort.

Predictor	< 70 years				≥ 70 years			
	OR	95% CI	P-value	OR	95% CI	P value		
Age/10	1.25	1.19	1.30	<0.001	1.11	0.94	1.31	0.226
Sex								
Male	1.25	1.11	1.42	<0.001	1.01	0.82	1.25	0.918
Female	ref	ref	ref	ref	ref	ref	ref	ref
Triage category								
>1 hour	ref	ref	ref	ref	ref	ref	ref	ref
< 1 hour	2.22	1.85	2.67	<0.001	1.70	1.26	2.31	0.001
< 10 min	3.64	2.93	4.52	<0.001	3.09	2.14	4.45	<0.001
Arrival mode								
Self-referral	ref	ref	ref	ref	ref	ref	ref	ref
Referred	1.21	1.05	1.40	0.007	1.09	0.82	1.45	0.541
Ambulance	1.94	1.63	2.32	<0.001	1.40	1.03	1.91	0.030
Chief Complaint								
Minor trauma	ref	ref	ref	ref	ref	ref	ref	ref
Major trauma	1.31	0.89	1.94	0.171	0.94	0.40	2.18	0.881
Chest pain	0.28	0.21	0.36	<0.001	0.19	0.12	0.30	<0.001
Dyspnea	0.79	0.58	1.07	0.128	0.41	0.25	0.67	<0.001
Syncope	0.74	0.51	1.06	0.099	0.48	0.29	0.79	0.004
Psychiatric	1.48	1.03	2.13	0.036	1.19	0.53	2.69	0.668
Malaise	1.31	1.03	1.66	0.026	1.22	0.83	1.79	0.316
Abdominal pain	1.34	1.07	1.68	0.012	1.12	0.74	1.69	0.600
Other	1.13	0.89	1.43	0.317	1.24	0.80	1.94	0.342
Type of specialist								
Medicine	1.17	0.99	1.37	0.062	1.10	0.81	1.49	0.526
Surgery	ref	ref	ref	ref	ref	ref	ref	ref
Revisit to the ED	1.57	1.32	1.88	<0.001	1.95	1.41	2.69	<0.001
Phlebotomised blood sample	4.79	3.83	5.99	<0.001	7.25	4.76	11.05	<0.001
Oxygen saturation								
≤ 90%	1.80	0.93	3.48	0.083	4.42	1.83	10.68	0.001
91-94%	1.78	1.26	2.51	0.001	1.58	1.02	2.47	0.042
≥ 95%	ref	ref	ref	ref	ref	ref	ref	ref
Missing	1.11	0.81	1.52	0.522	1.25	0.68	2.29	0.475
Systolic BP								
≤100	1.96	1.33	2.88	0.001	1.70	0.92	3.13	0.091
101-199	ref	ref	ref	ref	ref	ref	ref	ref
>200	1.32	0.70	2.47	0.386	0.71	0.39	1.28	0.259
Missing	0.57	0.40	0.82	0.002	0.59	0.31	1.11	0.103
Temperature								
≤35.0	1.86	0.89	3.87	0.099	0.91	0.34	2.41	0.844
35.1-38.4	ref	ref	ref	ref	ref	ref	ref	ref
≥38.5	3.34	2.41	4.61	<0.001	3.36	1.78	6.36	<0.001
Missing	0.85	0.70	1.02	0.083	0.94	0.70	1.27	0.691
Heart rate								
≤50	0.67	0.36	1.26	0.214	2.07	0.90	4.76	0.086
51 - 100	ref	ref	ref	ref	ref	ref	ref	ref
101 -110	1.62	1.29	2.03	<0.001	1.35	0.86	2.11	0.196
111-129	1.57	1.22	2.02	<0.001	1.20	0.73	1.98	0.471
≥130	2.57	1.76	3.74	<0.001	0.76	0.41	1.39	0.369
Missing	1.07	0.69	1.68	0.753	0.81	0.39	1.70	0.577

Respiratory rate

≤8	0.75	0.15	3.74	0.724	2.62	0.17	39.95	0.488
9-14	ref	ref	ref	ref	ref	ref	ref	ref
15-20	0.94	0.76	1.15	0.546	1.06	0.75	1.49	0.745
21-29	1.29	0.99	1.69	0.060	1.79	1.18	2.71	0.006
≥30	3.98	1.99	7.95	<0.001	4.48	1.87	10.73	0.001
Missing	1.05	0.85	1.29	0.659	1.02	0.70	1.47	0.930

Intercept

-4.572

-3.521

AUC (95% CI)

0.853 (0.844-0.861)

0.808 (0.790-0.826)

GoF-value

0.289

0.455

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- e) Abbreviations: n: number, OR: odds ratio, 95%CI: 95% confidence interval. GoF= Hosmer-Lemeshow Goodness of Fit χ^2 test. AUC: Area Under The Curve
f) Age in years divided by ten.
g) Vital parameters measured are: oxygen saturation, measured in percentage oxygenated hemoglobin. Systolic BP: Systolic blood pressure, measured in millimeters of mercury. Temperature measured in degrees Celsius. Heart rate and respiratory rate are measured as times per minute.
h) P-value values are derived from multiple logistic regression analysis.

Supplemental table 4: Multivariable model of hospitalization of patients at the Emergency Department - training and test cohort

Predictor	< 70 years					≥ 70 years				
	beta	OR	95% CI		P-value	beta	OR	95% CI		P-value
Age/10	0.228	1.26	1.20	1.31	<0.001	0.259	1.30	1.10	1.53	0.002
Sex										
Male	0.280	1.32	1.17	1.50	<0.001					
Female	ref	ref	ref	ref	ref					
Triage category										
>1 hour	ref	ref	ref	ref	ref	ref	ref	ref	ref	ref
< 1 hour	0.772	2.16	1.79	2.62	<0.001	0.752	3.77	2.60	5.46	<0.001
< 10 min	1.302	3.68	2.95	4.59	<0.001	1.327	2.12	1.54	2.92	<0.001
Arrival mode										
Self- referral	ref	ref	ref	ref	ref	ref	ref	ref	ref	ref
Referred	0.207	1.93	1.62	2.29	<0.001	0.250	1.28	0.96	1.72	0.095
Ambulance	0.656	1.23	1.06	1.43	0.006	0.543	1.72	1.27	2.33	<0.001
Main Complaint										
Minor trauma	ref	ref	ref	ref	ref	ref	ref	ref	ref	ref
Major trauma	0.137	1.15	0.78	1.69	0.486	-0.115	0.89	0.39	2.03	0.785
Chest pain	-1.534	0.22	0.16	0.28	<0.001	-1.220	0.30	0.20	0.44	<0.001
Dyspnea	-0.576	0.56	0.41	0.77	<0.001	-0.210	0.81	0.53	1.25	0.343
Collaps	-0.332	0.72	0.51	1.02	0.065	-0.755	0.47	0.29	0.77	0.003
Psychiatric	0.284	1.33	0.93	1.91	0.123	0.083	1.09	0.50	2.35	0.833
Malaise	0.134	1.14	0.90	1.46	0.276	0.308	1.36	0.96	1.93	0.081
Abdominal pain	0.111	1.12	0.89	1.41	0.351	-0.141	0.87	0.58	1.31	0.503
Other	-0.046	0.96	0.75	1.23	0.717	0.033	1.03	0.66	1.61	0.884
Type of specialist										
Medicine	0.344	1.41	1.20	1.67	<0.001					
Surgery	ref	ref	ref	ref	ref					
Revisit to the ED	0.561	1.75	1.46	2.10	<0.001	0.498	1.65	1.18	2.29	0.003
Phlebotomised blood sample	1.642	5.17	4.10	6.51	<0.001	1.893	6.64	4.33	10.19	<0.001
Oxygen sturation										
≤ 90%	0.655	1.93	1.00	3.72	0.051	1.482	4.40	1.55	12.48	0.005
91-94%	0.387	1.47	1.05	2.07	0.025	0.216	1.24	0.83	1.86	0.294
≥ 95%	ref	ref	ref	ref	ref	ref	ref	ref	ref	ref
Missing	0.090	1.09	0.78	1.53	0.600	0.032	1.03	0.58	1.85	0.914
Systolic BP										
≤100	0.802	2.23	1.52	3.27	<0.001					
101-199	ref	ref	ref	ref	ref					
>200	0.243	1.28	0.67	2.43	0.462					
Missing	-0.453	0.64	0.46	0.89	0.008					
Temperature										
≤35.0	0.225	1.25	0.58	2.72	0.571	-0.017	0.98	0.38	2.52	0.971
35.1-38.4	ref	ref	ref	ref	ref	ref	ref	ref	ref	ref
≥38.5	1.356	3.88	2.79	5.40	<0.001	1.688	5.41	2.61	11.23	<0.001
Missing	-0.041	0.96	0.80	1.16	0.668	-0.228	0.80	0.59	1.08	0.137
Heart rate										
≤50	0.095	1.10	0.64	1.89	0.729	0.713	2.04	0.90	4.63	0.088
51 - 100	ref	ref	ref	ref	ref	ref	ref	ref	ref	ref
101 -110	0.458	1.58	1.26	1.99	<0.001	-0.030	0.97	0.64	1.47	0.888
111-129	0.417	1.52	1.17	1.97	0.002	0.105	1.11	0.69	1.79	0.667
≥130	0.620	1.86	1.27	2.72	0.001	-0.740	0.48	0.26	0.89	0.02

Missing	-0.106	0.90	0.58	1.40	0.638	-0.324	0.72	0.38	1.39	0.328
Respiratory rate										
≤8	-0.840	0.43	0.09	1.98	0.280	21.663	∞	0	∞	0.999
9-14	ref	ref	ref	ref	ref	ref	ref	ref	ref	ref
15-20	-0.026	0.97	0.80	1.20	0.802	0.189	1.21	0.87	1.68	0.261
21-29	0.352	1.42	1.09	1.86	0.010	0.630	1.88	1.26	2.79	0.002
≥30	1.220	3.39	1.79	6.41	<0.001	1.073	2.93	1.38	6.20	0.005
Missing	-0.007	0.99	0.81	1.22	0.949	-0.054	0.95	0.67	1.34	0.761
Intercept	-4.687					-5.021				
Training cohort AUC (95% CI)	0.86 (0.85-0.87)					0.80 (0.78-0.82)				
GoF-value	0.387					0.373				
Test cohort AUC (95%CI)	0.85 (0.84-0.86)					0.78 (0.76-0.80)				

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- a) Abbreviations: n: number, OR: odds ratio, 95%CI: 95% confidence interval. GoF= Hosmer-Lemeshow Goodness of Fit χ^2 test. AUC: Area Under The Curve
- b) Age in years divided by ten.
- c) Vital parameters measured are: oxygen saturation, measured in percentage oxygenated hemoglobin. Systolic BP: Systolic blood pressure, measured in millimeters of mercury. Temperature measured in degrees Celsius. Heart rate and respiratory rate are measured as times per minute.
- d) P-value values are derived from multiple logistic regression analysis.