

Characteristic	Overall	Dataset	
	[N = 2193]	Derivation	Validation
	mean/No. (SD/%)	[N = 1769]	[N = 424]
	[n*]		
Age	63.9 (16.8) [2193]	64.4 (16.7) [1769]	61.5 (17.3) [424]
Gender (female)	1046 (48%) [2193]	830 (47%) [1769]	216 (51%) [424]
Race (yes)			
Black	1024 (49%) [2101]	840 (49%) [1698]	184 (46%) [403]
White	949 (45%) [2101]	744 (44%) [1698]	205 (51%) [403]
Asian	52 (2%) [2101]	45 (3%) [1698]	7 (2%) [403]
Native American or Pacific Islander	10 (0%) [2101]	10 (1%) [1698]	0 (0%) [403]
Other	66 (3%) [2101]	59 (3%) [1698]	7 (2%) [403]
Ethnicity (yes)			
Hispanic	113 (5%) [2185]	92 (5%) [1762]	21 (5%) [423]
Non-Hispanic	1907 (87%) [2185]	1535 (87%) [1762]	372 (88%) [423]
Unknown	165 (8%) [2185]	135 (8%) [1762]	30 (7%) [423]
Residing in a Nursing Facility or Assisted Living (yes)	408 (19%) [2164]	340 (19%) [1748]	68 (16%) [416]
Ever-smoker (yes)	809 (40%) [2041]	645 (39%) [1648]	164 (42%) [393]
BMI	32.6 (60.4) [2079]	31.2 (8.5) [1680]	38.7 (136.7) [399]
No. of comorbidities			
0	289 (13%) [2187]	228 (13%) [1769]	61 (15%) [418]
1	420 (19%) [2187]	341 (19%) [1769]	79 (19%) [418]
2	462 (21%) [2187]	369 (21%) [1769]	93 (22%) [418]
3	375 (17%) [2187]	299 (17%) [1769]	76 (18%) [418]
4	269 (12%) [2187]	225 (13%) [1769]	44 (11%) [418]
>4	372 (17%) [2187]	307 (17%) [1769]	65 (16%) [418]
Presence of comorbidity (yes)			
Cardiovascular disease	596 (27%) [2187]	485 (27%) [1769]	111 (27%) [418]
Congestive heart failure	334 (15%) [2187]	275 (16%) [1769]	59 (14%) [418]
Chronic obstructive pulmonary disease	273 (12%) [2187]	208 (12%) [1769]	65 (16%) [418]
Asthma	274 (13%) [2187]	219 (12%) [1769]	55 (13%) [418]
Diabetes (complicated and uncomplicated)	817 (37%) [2187]	655 (37%) [1769]	162 (39%) [418]
Severe liver disease	15 (1%) [2187]	12 (1%) [1769]	3 (1%) [418]
Cancer	175 (8%) [2187]	144 (8%) [1769]	31 (7%) [418]
Symptoms (yes)			
Fatigue	747 (34%) [2187]	585 (33%) [1769]	162 (39%) [418]
Fever (subjective and objective)	1827 (84%) [2187]	1452 (82%) [1769]	375 (90%) [418]
Chest pain	358 (16%) [2187]	301 (17%) [1769]	57 (14%) [418]
Hypoxia	878 (40%) [2187]	729 (41%) [1769]	149 (36%) [418]
First recorded heart rate			
< 90 BPM	847 (39%) [2177]	701 (40%) [1760]	146 (35%) [417]
90-100 BPM	495 (23%) [2177]	391 (22%) [1760]	104 (25%) [417]
101-124 BPM	683 (31%) [2177]	544 (31%) [1760]	139 (33%) [417]
> 124 BPM	152 (7%) [2177]	124 (7%) [1760]	28 (7%) [417]
First recorded respiratory rate			
< 20	809 (38%) [2149]	645 (37%) [1734]	164 (40%) [415]
20-24	855 (40%) [2149]	682 (39%) [1734]	173 (42%) [415]
25-30	284 (13%) [2149]	240 (14%) [1734]	44 (11%) [415]
> 30	201 (9%) [2149]	167 (10%) [1734]	34 (8%) [415]

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First recorded systolic blood pressure			
>= 101 mmHg	1997 (93%) [2154]	1619 (93%) [1740]	378 (91%) [414]
90 - 100 mmHg	101 (5%) [2154]	80 (5%) [1740]	21 (5%) [414]
< 90 mmHg	56 (3%) [2154]	41 (2%) [1740]	15 (4%) [414]
First recorded pulse oximetry			
91-100%	1726 (80%) [2164]	1386 (79%) [1750]	340 (82%) [414]
81-90%	342 (16%) [2164]	287 (16%) [1750]	55 (13%) [414]
71-80%	56 (3%) [2164]	45 (3%) [1750]	11 (3%) [414]
<= 70%	40 (2%) [2164]	32 (2%) [1750]	8 (2%) [414]
Triage score			
1	112 (6%) [1880]	91 (6%) [1564]	21 (7%) [316]
2	907 (48%) [1880]	731 (47%) [1564]	176 (56%) [316]
3	753 (40%) [1880]	646 (41%) [1564]	107 (34%) [316]
4	47 (3%) [1880]	37 (2%) [1564]	10 (3%) [316]
5	61 (3%) [1880]	59 (4%) [1564]	2 (1%) [316]
Highest initial creatinine (mg/dL)	1.6 (1.7) [2140]	1.7 (1.7) [1737]	1.5 (1.7) [403]
Highest initial white blood cell count (K/uL)	8.3 (6.4) [2154]	8.4 (6.7) [1750]	7.9 (4.4) [404]
Pneumonia indication on chest x-ray (yes)	1618 (79%) [2054]	1318 (78%) [1684]	300 (81%) [370]

* n is the number of complete cases in the data for the given variable. Percentages are calculated as No./n. SD = Standard Deviation, BPM = Beats per Minute, BMI = Body Mass Index.

eTable 3: Full data patient characteristics, by derivation and validation set.