

Supplemental Table 1S: Index visit patient-level characteristics for patients who returned to ED within 30 days.

	Return ED visit without Admission	Return ED visit with Admission	p value
	0 (N=1039)	1 (N=571)	
ems			< 0.001
No_Unsure	962 (92.6%)	446 (78.1%)	
Yes	77 (7.4%)	125 (21.9%)	
transferred			< 0.001
No_Unsure	1033 (99.4%)	550 (96.3%)	
Yes	6 (0.6%)	21 (3.7%)	
sex			0.479
Female	525 (50.5%)	278 (48.7%)	
Male	514 (49.5%)	293 (51.3%)	
insurance			< 0.001
Dual	15 (1.4%)	22 (3.9%)	
Medicaid	272 (26.2%)	96 (16.8%)	
Medicare	147 (14.1%)	153 (26.8%)	
Private	398 (38.3%)	219 (38.4%)	
SelfPay	161 (15.5%)	62 (10.9%)	
Unknown	40 (3.8%)	12 (2.1%)	
WorkersComp	6 (0.6%)	7 (1.2%)	
age			< 0.001
Mean (SD)	43.575 (16.046)	54.925 (16.400)	
Range	18.000 - 95.000	18.000 - 97.000	
cc_sx_ear_pain			0.001

	0 (N=1039)	1 (N=571)	p value
N	966 (93.0%)	553 (96.8%)	
Y	73 (7.0%)	18 (3.2%)	
cc_sx_rhinorrhea			0.546
N	809 (77.9%)	452 (79.2%)	
Y	230 (22.1%)	119 (20.8%)	
cc_sx_sore_throat			0.002
N	697 (67.1%)	425 (74.4%)	
Y	342 (32.9%)	146 (25.6%)	
cc_sx_cough_dry			0.002
N	409 (39.4%)	180 (31.5%)	
Y	630 (60.6%)	391 (68.5%)	
cc_sx_cough_sputum			< 0.001
N	982 (94.5%)	503 (88.1%)	
Y	57 (5.5%)	68 (11.9%)	
cc_sx_cough_hemoptysis			0.702
N	1034 (99.5%)	569 (99.6%)	
Y	5 (0.5%)	2 (0.4%)	
cc_sx_chest_pain			0.031
N	609 (58.6%)	366 (64.1%)	
Y	430 (41.4%)	205 (35.9%)	
cc_sx_wheezing			0.026
N	923 (88.8%)	527 (92.3%)	

	0 (N=1039)	1 (N=571)	p value
Y	116 (11.2%)	44 (7.7%)	
cc_sx_sob			0.951
N	466 (44.9%)	257 (45.0%)	
Y	573 (55.1%)	314 (55.0%)	
cc_sx_resp_distress			0.543
N	1037 (99.8%)	569 (99.6%)	
Y	2 (0.2%)	2 (0.4%)	
cc_sx_fever			< 0.001
N	393 (37.8%)	164 (28.7%)	
Y	646 (62.2%)	407 (71.3%)	
cc_sx_fatigue_malaise			0.006
N	790 (76.0%)	398 (69.7%)	
Y	249 (24.0%)	173 (30.3%)	
cc_sx_myalgia			0.030
N	647 (62.3%)	324 (56.7%)	
Y	392 (37.7%)	247 (43.3%)	
cc_sx_arthralgia			0.030
N	907 (87.3%)	519 (90.9%)	
Y	132 (12.7%)	52 (9.1%)	
cc_sx_headache			0.007
N	615 (59.2%)	377 (66.0%)	
Y	424 (40.8%)	194 (34.0%)	

	0 (N=1039)	1 (N=571)	p value
cc_sx_ams			0.038
N	947 (91.1%)	537 (94.0%)	
Y	92 (8.9%)	34 (6.0%)	
cc_sx_seizure			0.161
N	1016 (97.8%)	564 (98.8%)	
Y	23 (2.2%)	7 (1.2%)	
cc_sx_abd_pain			0.091
N	700 (67.4%)	408 (71.5%)	
Y	339 (32.6%)	163 (28.5%)	
cc_sx_naus_vom			0.620
N	630 (60.6%)	339 (59.4%)	
Y	409 (39.4%)	232 (40.6%)	
cc_sx_diarrhea			0.276
N	706 (67.9%)	403 (70.6%)	
Y	333 (32.1%)	168 (29.4%)	
cc_sx_conjunct			0.458
N	1038 (99.9%)	571 (100.0%)	
Y	1 (0.1%)	0 (0.0%)	
cc_sx_rash			0.093
N	862 (83.0%)	492 (86.2%)	
Y	177 (17.0%)	79 (13.8%)	
cc_sx_lymphad			0.458

	0 (N=1039)	1 (N=571)	p value
N	1038 (99.9%)	571 (100.0%)	
Y	1 (0.1%)	0 (0.0%)	
cc_sx_bleeding			0.073
N	1005 (96.7%)	561 (98.2%)	
Y	34 (3.3%)	10 (1.8%)	
cc_sx_olfact_taste			0.083
N	944 (90.9%)	533 (93.3%)	
Y	95 (9.1%)	38 (6.7%)	
cc_sx_syncope			0.376
N	930 (89.5%)	519 (90.9%)	
Y	109 (10.5%)	52 (9.1%)	
risk_none			0.003
N	928 (89.3%)	481 (84.2%)	
Y	111 (10.7%)	90 (15.8%)	
risk_hcw			0.407
N	964 (92.8%)	536 (93.9%)	
Y	75 (7.2%)	35 (6.1%)	
risk_known_exposure			0.851
N	923 (88.8%)	509 (89.1%)	
Y	116 (11.2%)	62 (10.9%)	
risk_homeless			0.161
N	1016 (97.8%)	564 (98.8%)	

	0 (N=1039)	1 (N=571)	p value
Y	23 (2.2%)	7 (1.2%)	
risk_nurs_home			0.002
N	1025 (98.7%)	550 (96.3%)	
Y	14 (1.3%)	21 (3.7%)	
risk_assist_living			0.007
N	1039 (100.0%)	567 (99.3%)	
Y	0 (0.0%)	4 (0.7%)	
risk_prison_jail			0.832
N	1036 (99.7%)	569 (99.6%)	
Y	3 (0.3%)	2 (0.4%)	
risk_group_home			0.335
N	1034 (99.5%)	570 (99.8%)	
Y	5 (0.5%)	1 (0.2%)	
hr			< 0.001
Mean (SD)	89.556 (15.733)	94.473 (17.267)	
Range	54.000 - 139.595	54.000 - 139.595	
rr			< 0.001
Mean (SD)	18.160 (2.038)	19.067 (2.836)	
Range	13.000 - 32.000	13.000 - 32.000	
o2_sat_room			< 0.001
Mean (SD)	97.987 (1.886)	96.498 (2.907)	
Range	80.000 - 100.000	80.000 - 100.000	

	0 (N=1039)	1 (N=571)	p value
pulse_ox_room_air			< 0.001
0	424 (40.8%)	138 (24.2%)	
1	615 (59.2%)	433 (75.8%)	
o2_sat			< 0.001
Mean (SD)	97.451 (2.335)	95.209 (3.857)	
Range	67.000 - 100.000	62.000 - 100.000	
temp			< 0.001
Mean (SD)	37.103 (0.708)	37.467 (0.863)	
Range	35.700 - 39.600	35.700 - 39.600	
sbp			0.717
Mean (SD)	132.783 (19.373)	133.163 (21.437)	
Range	83.000 - 196.700	83.000 - 196.700	
dbp			0.108
Mean (SD)	80.985 (12.505)	79.913 (13.317)	
Range	46.000 - 122.000	46.000 - 122.000	
hypotensive_yn			0.203
N	989 (95.2%)	535 (93.7%)	
Y	50 (4.8%)	36 (6.3%)	
pmh_diabetes			< 0.001
N	920 (88.5%)	408 (71.5%)	
Y	119 (11.5%)	163 (28.5%)	
pmh_smoker			< 0.001

	0 (N=1039)	1 (N=571)	p value
N	916 (88.2%)	538 (94.2%)	
Y	123 (11.8%)	33 (5.8%)	
pmh_systemic_hypertension			< 0.001
N	820 (78.9%)	317 (55.5%)	
Y	219 (21.1%)	254 (44.5%)	
pmh_heart_disease			0.002
N	1016 (97.8%)	542 (94.9%)	
Y	23 (2.2%)	29 (5.1%)	
pmh_obesity			< 0.001
N	844 (81.2%)	377 (66.0%)	
Y	195 (18.8%)	194 (34.0%)	
pmh_hyperlipidemias			< 0.001
N	954 (91.8%)	435 (76.2%)	
Y	85 (8.2%)	136 (23.8%)	
pmh_heart_failure			< 0.001
N	1022 (98.4%)	542 (94.9%)	
Y	17 (1.6%)	29 (5.1%)	
pmh_afib			< 0.001
N	1022 (98.4%)	542 (94.9%)	
Y	17 (1.6%)	29 (5.1%)	
pmh_cancer			0.004
N	1005 (96.7%)	535 (93.7%)	

	0 (N=1039)	1 (N=571)	p value
Y	34 (3.3%)	36 (6.3%)	
pmh_copd			0.056
N	1016 (97.8%)	549 (96.1%)	
Y	23 (2.2%)	22 (3.9%)	
pmh_asthma			0.031
N	950 (91.4%)	503 (88.1%)	
Y	89 (8.6%)	68 (11.9%)	
prior_vte			0.333
N	997 (96.0%)	542 (94.9%)	
Y	42 (4.0%)	29 (5.1%)	
pmh_other_lung_disease			< 0.001
N	1033 (99.4%)	555 (97.2%)	
Y	6 (0.6%)	16 (2.8%)	
pmh_organ_transplant			0.050
N	1035 (99.6%)	564 (98.8%)	
Y	4 (0.4%)	7 (1.2%)	
pmh_hiv_aids			0.063
N	1017 (97.9%)	566 (99.1%)	
Y	22 (2.1%)	5 (0.9%)	
med_ibuprofen			0.326
No_NotDoc	944 (90.9%)	527 (92.3%)	
Yes	95 (9.1%)	44 (7.7%)	

	0 (N=1039)	1 (N=571)	p value
med_acetaminophen			< 0.001
No_NotDoc	836 (80.5%)	397 (69.5%)	
Yes	203 (19.5%)	174 (30.5%)	
med_aspirin			< 0.001
No_NotDoc	996 (95.9%)	508 (89.0%)	
Yes	43 (4.1%)	63 (11.0%)	
med_statins			< 0.001
No_NotDoc	982 (94.5%)	464 (81.3%)	
Yes	57 (5.5%)	107 (18.7%)	
med_ace_inhibitors			< 0.001
No_NotDoc	997 (96.0%)	520 (91.1%)	
Yes	42 (4.0%)	51 (8.9%)	
med_angiotensin_rb			< 0.001
No_NotDoc	1004 (96.6%)	522 (91.4%)	
Yes	35 (3.4%)	49 (8.6%)	
med_antihypertensive			< 0.001
No_NotDoc	958 (92.2%)	474 (83.0%)	
Yes	81 (7.8%)	97 (17.0%)	
med_thiazolidinediones			0.469
No_NotDoc	1035 (99.6%)	570 (99.8%)	
Yes	4 (0.4%)	1 (0.2%)	
cxr_performed			< 0.001

	0 (N=1039)	1 (N=571)	p value
N	569 (54.8%)	117 (20.5%)	
Y	470 (45.2%)	454 (79.5%)	
race_eth			< 0.001
Hispanic	304 (29.3%)	153 (26.8%)	
NonHisp_Black	365 (35.1%)	231 (40.5%)	
NonHisp_White	159 (15.3%)	132 (23.1%)	
Unknown_Other	211 (20.3%)	55 (9.6%)	
bounceback			
0	0 (0.0%)	0 (0.0%)	
1	1039 (100.0%)	571 (100.0%)	