Supplementary Table 1. Patient Characteristics Across Primary Interventions for Complete Cases Only and All Cases with Imputed Data

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| --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |
|  | No POCUS | POCUS before intervention | POCUS after intervention |
|  | Complete Cases Only | Imputed Dataset | Complete Cases Only | Imputed Dataset | Complete Cases Only | Imputed Dataset  |
| Patient Characteristics | N (missing) | Median/Percent (95% CI) | Median/Percent (95% CI) | N (missing) | Median/Percent (95% CI) | Median/Percent (95% CI) | N (missing) | Median/Percent (95% CI) | Median/Percent (95% CI) |
| Age, years (median) | 4165 (0) | 56 (55, 57) | ---- | 614 (0) | 61 (59, 63) | ---- | 662 (0) | 58 (56, 60) | ---- |
| Female (percent) | 1,795/4165 (0) | 43.1 (40.6, 44.6) | ---- | 270/613 (1) | 44.0 (40.1, 48.1) | ---- | 282/662 (0) | 42.6 (38.8, 6.5) | ---- |
| BMI (median) | 3930 (235) | 25.8 (25.6, 26.1) | 25.9 (25.6, 26.1) | 589 (25) | 26.6 (25.9, 27.2) | 26.6 (25.8, 27.3) | 633 (29) | 25.7 (25.0, 26.3) | 25.7 (25.0, 26.4) |
| Method of Arrival to ED (percent) | 4,165 (0) |  |  | 614 (0) |  |  | 662 (0) |  |  |
| Private vehicle | 1,062 | 25.6 (24.2, 26.9) | ---- | 156 | 25.4 (22, 29.1) | ---- | 188 | 28.3 (24.9, 31.9) | ---- |
| EMS Ground | 2,896 | 69.5 (68.1, 70.9) | ---- | 412 | 67.0 (63.2, 70.8) | ---- | 444 | 67.1 (63.4, 70.7) | ---- |
| EMS Air | 109 | 2.6 (2.1, 3.1) | ---- | 34 | 5.5 (3.9, 7.7) | ---- | 16 | 2.4 (1.4, 3.9) | ---- |
| Other | 98 | 2.3 (1.9, 2.8) | ---- | 12 | 2.0 (1.0, 3.4) | ---- | 14 | 2.1 (1.2, 3.5) | ---- |
| Triage acuity level 1 (vs. 2-4, percent) | 1,088/4,105 (55) | 26.5 (25.1, 27.8) | 26.7 (25.3, 28.0) | 143/613 (1) | 23.3 (20.0, 26.9) | 23.3 (20.0, 26.7) | 144/657 (5) | 21.9 (18.8, 25.3) | 22.1 (19.0, 25.3) |
| Temp, ℉ (median) | 4018 (147) | 98.1 (98.1, 98.1) | 98.1 (98.1, 98.1) | 607 (7) | 97.9 (97.8, 98.0) | 97.9 (97.8, 98.0) | 649 (13) | 98.1 (98.0, 98.2) | 98.1 (98.0, 98.2) |
| Heart rate, bpm (median) | 4059 (6) | 108 (107, 109) | 108 (107, 109) | 609 (5) | 110 (108 1012) | 110 (108, 113) | 652 (10) | 110 (108, 112) | 110 (108, 112) |
| Mean Arterial Pressure | 4020 (145) | 91 (90, 92) | 91 (90, 92) | 601 (13) | 89 (86, 91) | 89 (86, 92) | 650 (12) | 80 (77, 82) | 80 (77, 82) |
| O2 saturation, % (median) | 4076 (89) | 97 (97, 97) | 97 (97, 97) | 605 (9) | 96 (96, 96) | 96 (96, 96) | 653 (9) | 96 (96, 96) | 96 (95, 97) |
| Respiratory Rate, bpm (median) | 4017 (148) | 20 (20, 20) | 20 (20, 20) | 607 (7) | 20 (19, 21) | 20 (19, 21) | 648 (24) | 20 (19, 21) | 20 (19, 21) |
| Initial lactate, mmol/L (median) | 3456 (709) | 2.5 (2.4, 2.6) | 2.5 (2.4, 2.6) | 545 (69) | 2.5 (2.3, 2.7) | 2.5 (2.3, 2.7) | 600 (62) | 2.7 (2.5, 2.9) | 2.7 (2.5, 2.9) |
| Shock index (median) | 3991 (174) | 0.85 (0.84, 0.86) | 0.85 (0.84, 0.86) | 600 (14) | 0.90 (0.87, 0.92) | 0.90 (0.87, 0.92) | 648 (14) | 0.98 (0.95, 1.00) | 0.98 (0.95, 1.00) |
| Sepsis diagnosis (percent) | 353/4165 (0) | 8.5 (7.6, 9.4) | ---- | 82/614 (0) | 13.4 (10.7, 16.3) | ---- | 140/662 (0) | 21.1 (18.1, 24.5) | ---- |
| Sepsis alert in electronic medical chart (percent) | 1,487/4165 (0) | 35.7 (34.2, 37.2) | ---- | 321/614 (0) | 52.3 (48.2, 56.3) | ---- | 350/662 (0) | 52.9 (49, 56.7) | ---- |
| Hospital Campus 1 (vs. 2, percent) | 1,379/4165 (0) | 32.9 (31.5, 34.4) | ---- | 164/614 (0) | 26.7 (23.2, 30.4) | ---- | 220/662 (0) | 33.2 (29.7, 37) | ---- |
| Cardiac Arrest (percent) | 254/4165 (0) | 6.1 (5.4, 6.9) | ---- | 24/614 (0) | 3.9 (2.5, 5.8) | ---- | 30/662 (0) | 4.5 (3.1, 6.4) | ---- |
| Abbreviations: BMI, body mass index; bpm (heart rate), beats per minute; bpm (respiratory rate), breaths per minute; EMS, emergency medical services; kg, kilogram; mm Hg, millimeters of Mercury.  |