**Table 1. Summary statistics on all variables recovered**

|  |  |
| --- | --- |
|  |  |
| Variable | Frequency/median (IQR) |
| Race |  |
| America Indian or Alaska | 481 (2.0%) |
| Asian | 602 (2.5%) |
| Black or African American | 3,824 (16%) |
| Multiple Races | 542 (2.2%) |
| Native Hawaiian or Other Pacific Islander | 42 (0.2%) |
| Other Race | 1,404 (5.8%) |
| Unknown | 1,894 (7.9%) |
| White | 15,338 (64%) |
| Ethnicity |  |
| Hispanic or Latino | 7,376 (31%) |
| Not Hispanic or Latino | 13,282 (55%) |
| Unknown | 3,469 (14%) |
| Sex |  |
| Female | 11,401 (47%) |
| Male | 12,726 (53%) |
| Payer/insurance |  |
| Commercial or Private | 6,893 (29%) |
| Governmental | 12,172 (50%) |
| Self-pay | 424 (1.8%) |
| Unknown or others | 4,638 (19%) |
| Gestational age (weeks) | 30.00 (27.40, 31.50) |
| Unknown | 31% |
| Birthweight (grams) | 1,228 (860, 1,500) |
| Unknown | 15% |
| Temperature (degree Celsius) | 36.60 (36.30, 37.00) |
| Unknown | 20% |
| Heart rate (BPM) | 154 (142, 167) |
| Unknown | 20% |
| Respiratory rate (breaths per minute) | 46 (37, 57) |
| Unknown | 9% |
| Systolic blood pressure (mm Hg) | 53 (45, 62) |
| Unknown | 13% |
| Diastolic blood pressure (mm Hg) | 28 (22, 34) |
| Unknown | 13% |
| Oxygen saturate/pulse ox (%) | 95 (91, 98) |
| Unknown | 12% |
| FiO2 | 30 (21, 40) |
| Unknown | 26% |
| PaO2 | 52 (39, 71) |
| Unknown | 30% |
| pCO2 | 48 (40, 56) |
| Unknown | 28% |
| CPAP failure | 15,457 (64%) |

**Table 2. Bivariate analyses of variables**

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| --- | --- | --- |
|  |  |  |
| **Variable** | **Passed CPAP** | **Failed CPAP** |
| Race |  |  |
| America Indian or Alaska | 106 (1.6%) | 261 (2.2%) |
| Asian | 202 (3.1%) | 256 (2.2%) |
| Black or African American | 925 (14%) | 1,968 (17%) |
| Multiple Races | 120 (1.9%) | 269 (2.3%) |
| Native Hawaiian or Other Pacific Islander | 8 (0.1%) | 23 (0.2%) |
| Other Race | 479 (7.4%) | 573 (4.9%) |
| Unknown | 597 (9.2%) | 845 (7.3%) |
| White | 4,044 (62%) | 7,419 (64%) |
| Ethnicity |  |  |
| Hispanic or Latino | 1,884 (29%) | 3,619 (31%) |
| Not Hispanic or Latino | 3,224 (50%) | 6,763 (58%) |
| Unknown | 1,373 (21%) | 1,232 (11%) |
| Sex | NA | NA |
| Female | 3,088 (48%) | 5,436 (47%) |
| Male | 3,393 (52%) | 6,178 (53%) |
| Payer/insurance |  |  |
| Commercial or Private | 1,833 (28%) | 3,357 (29%) |
| Governmental | 3,032 (47%) | 6,092 (52%) |
| Self-pay | 179 (2.8%) | 143 (1.2%) |
| Unknown or others | 1,437 (22%) | 2,022 (17%) |
| Gestational age (weeks) | 31.00 (28.00, 32.00) | 29.50 (27.00, 31.50) |
| Birthweight (grams) | 1,361 (995, 1,625) | 1,150 (820, 1,455) |
| Temperature (degree Celsius) | 36.60 (36.20, 36.90) | 36.70 (36.30, 37.00) |
| Heart rate (BPM) | 152 (140, 164) | 155 (142, 168) |
| Respiratory rate (breaths per minute) | 48 (40, 59) | 45 (36, 56) |
| Systolic blood pressure (mm Hg) | 55 (48, 64) | 52 (44, 61) |
| Diastolic blood pressure (mm Hg) | 30 (23, 36) | 27 (21, 34) |
| Oxygen saturate/pulse ox (%) | 96 (93, 99) | 95 (90, 98) |
| FiO2 | 25 (21, 40) | 30 (21, 40) |
| PaO2 | 52 (38, 75) | 52 (40, 69) |
| pCO2 | 48 (41, 55) | 48 (40, 57) |