Baseline characteristics of MIMIC-IV study population stratified by trauma-related diagnoses

|  |  | Trauma-related cohorts | | | |  |
| --- | --- | --- | --- | --- | --- | --- |
| Variable | Overall | non-trauma | non-TBI trauma | non-severe TBI | severe TBI | p |
| n | 50,685 | 44,738 | 3,170 | 2,127 | 650 |  |
| Age (years) (median [IQR]) | 65.00 [53.00, 77.00] | 65.00 [54.00, 76.00] | 65.00 [48.00, 80.00] | 66.00 [48.00, 81.00] | 60.00 [38.00, 79.00] | <0.001 |
| Sex (male) = M (%) | 28306 (55.8) | 24648 (55.1) | 1928 (60.8) | 1310 ( 61.6) | 420 ( 64.6) | <0.001 |
| Hospital stay (days) (median [IQR]) | 6.49 [3.83, 11.00] | 6.49 [3.85, 10.94] | 7.00 [4.18, 12.15] | 5.49 [3.27, 9.38] | 7.72 [2.54, 18.50] | <0.001 |
| ICU stay (days) (median [IQR]) | 1.99 [1.12, 3.97] | 1.99 [1.13, 3.91] | 1.98 [1.06, 4.31] | 1.80 [0.96, 3.70] | 4.06 [1.71, 10.44] | <0.001 |
| Hospital Mortality = 1 (%) | 5130 (10.1) | 4488 (10.0) | 294 ( 9.3) | 91 ( 4.3) | 257 ( 39.5) | <0.001 |
| ICU Mortality = 1 (%) | 4108 ( 8.1) | 3588 ( 8.0) | 244 ( 7.7) | 52 ( 2.4) | 224 ( 34.5) | <0.001 |
| 30-day Mortality = 1 (%) | 6491 (12.8) | 5652 (12.6) | 384 (12.1) | 162 ( 7.6) | 293 ( 45.1) | <0.001 |
| 1-year Mortality = 1 (%) | 12415 (24.5) | 10947 (24.5) | 770 (24.3) | 364 ( 17.1) | 334 ( 51.4) | <0.001 |
| TBI = 1 (%) | 2777 ( 5.5) | 0 ( 0.0) | 0 ( 0.0) | 2127 (100.0) | 650 (100.0) | <0.001 |
| Consecutive days with ≥6h IMV (median [IQR]) | 0.00 [0.00, 2.00] | 0.00 [0.00, 2.00] | 0.00 [0.00, 2.00] | 0.00 [0.00, 1.00] | 3.00 [1.00, 7.00] | <0.001 |
| ≥14 consecutive days of IMV = 1 (%) | 899 ( 1.8) | 726 ( 1.6) | 94 ( 3.0) | 23 ( 1.1) | 56 ( 8.6) | <0.001 |
| 96h of IMV + Traq = 1 (%) | 397 ( 0.8) | 290 ( 0.6) | 42 ( 1.3) | 21 ( 1.0) | 44 ( 6.8) | <0.001 |
| PMV = 1 (%) | 1065 ( 2.1) | 837 ( 1.9) | 106 ( 3.3) | 37 ( 1.7) | 85 ( 13.1) | <0.001 |
| APS score (median [IQR]) | 37.00 [28.00, 50.00] | 37.00 [28.00, 51.00] | 38.00 [29.00, 51.00] | 32.00 [25.00, 41.00] | 43.00 [31.00, 60.00] | <0.001 |
| Charlson score (median [IQR]) | 4.00 [2.00, 7.00] | 4.00 [2.00, 7.00] | 4.00 [1.00, 6.00] | 3.00 [1.00, 5.00] | 2.00 [0.00, 5.00] | <0.001 |