## table\_1

Table 1: Description of the total ICU popualtion at discharge and according to RBC transfusion during ICU stay

| variable | N available total population | Total population | N available no transfusion group | No transfusion group | N available transfusion group | Transfusion group | p-value |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Age (years) | 1551 | 61 (49 - 73) | 892 | 60 (48 - 71) | 659 | 63 (51 - 74) | 0.0003 |
| Female gender (%) | 1551 | 566 (36 %) | 892 | 314 (35 %) | 659 | 252 (38 %) | 0.22 |
| BMI(Kg/m^2) | 968 | 26 (23 - 31) | 522 | 26 (23 - 31) | 446 | 27 (23 - 30) | 0.38 |
| Charlson score | 1551 | 1 (0 - 2) | 892 | 0 (0 - 2) | 659 | 1 (0 - 2) | <0.0001 |
| Hypertension | 1550 | 634 (41 %) | 892 | 337 (38 %) | 658 | 297 (45 %) | 0.004 |
| Coronary artery disease | 1550 | 123 (8 %) | 892 | 49 (5 %) | 658 | 74 (11 %) | <0.0001 |
| Chronic heart failure | 1550 | 106 (7 %) | 892 | 54 (6 %) | 658 | 52 (8 %) | 0.15 |
| Diabetes mellitus | 1550 | 271 (17 %) | 892 | 143 (16 %) | 658 | 128 (19 %) | 0.080 |
| Chronic obstructive pulmonary disease | 1550 | 171 (11 %) | 892 | 102 (11 %) | 658 | 69 (10 %) | 0.56 |
| Chronic renal disease | 1550 | 162 (10 %) | 892 | 58 (7 %) | 658 | 104 (16 %) | <0.0001 |
| Chronic liver disease | 1550 | 98 (6 %) | 892 | 49 (5 %) | 658 | 49 (7 %) | 0.12 |
| Active or recent malignant Cancer | 1550 | 186 (12 %) | 892 | 77 (9 %) | 658 | 109 (17 %) | <0.0001 |
| Cardiac causes of admission | 1551 | 221 (14 %) | 892 | 150 (17 %) | 659 | 71 (11 %) | <0.0001 |
| Hemorrhagic shock |  | 83 (5 %) |  | 10 (1 %) |  | 73 (11 %) |  |
| Acute respiratory failure |  | 299 (19 %) |  | 204 (23 %) |  | 95 (14 %) |  |
| Neurologic causes of admission |  | 240 (15 %) |  | 200 (22 %) |  | 40 (6 %) |  |
| Others |  | 96 (6 %) |  | 45 (5 %) |  | 51 (8 %) |  |
| Polytrauma |  | 86 (6 %) |  | 38 (4 %) |  | 48 (7 %) |  |
| Post operative-room |  | 156 (10 %) |  | 73 (8 %) |  | 83 (13 %) |  |
| Sepsis |  | 370 (24 %) |  | 172 (19 %) |  | 198 (30 %) |  |
| SOFA score | 1146 | 7 (4 - 10) | 633 | 7 (4 - 10) | 513 | 8 (5 - 11) | <0.0001 |
| SAPS II score | 1550 | 46 (34 - 60) | 891 | 46 (34 - 59) | 659 | 46 (35 - 61) | 0.085 |
| Renal replacement therapy | 1551 | 283 (18 %) | 892 | 102 (11 %) | 659 | 181 (27 %) | <0.0001 |
| Red blood transfusion | 1551 | 659 (42 %) | 892 | 0 (0 %) | 659 | 659 (100 %) | <0.0001 |
| Platelets transfusion | 1551 | 223 (14 %) | 892 | 20 (2 %) | 659 | 203 (31 %) | <0.0001 |
| Hemoglobin at discharge (g/dl) | 1350 | 10.0 (9.0 - 11.2) | 751 | 10.4 (9.3 - 11.7) | 599 | 9.6 (8.6 - 10.6) | <0.0001 |
| Number of red blood transfusions | 1551 | 0 (0 - 3) | 892 | 0 (0 - 0) | 659 | 4 (2 - 7) | <0.0001 |
| Systolic blood pressure at discharge (mmHg) | 1351 | 125 (111 - 139) | 759 | 124 (111 - 138) | 592 | 125 (111 - 140) | 0.36 |
| Diastolic blood pressure at discharge (mmHg) | 1292 | 68 (59 - 77) | 712 | 69 (60 - 77) | 580 | 67 (58 - 76) | 0.001 |
| Heart rate at discharge (bpm) | 1336 | 90 (79 - 101) | 746 | 88 (78 - 99) | 590 | 92 (80 - 103) | 0.001 |
| Creatinine at discharge (micromol/l) | 1494 | 66 (51 - 96) | 849 | 64 (51 - 83) | 645 | 73 (52 - 118) | <0.0001 |
| Platelets at discharge (/ml) | 1342 | 293000 (184000 - 434000) | 742 | 293000 (188000 - 432000) | 600 | 292500 (174000 - 436000) | 0.24 |
| lactate at discharge (mmol/l) | 645 | 1.0 (0.7 - 1.3) | 345 | 0.9 (0.7 - 1.3) | 300 | 1.1 (0.8 - 1.4) | <0.0001 |
| Length of stay in ICU (days) | 1551 | 12 (7 - 21) | 892 | 10 (6 - 16) | 659 | 16 (9 - 27) | <0.0001 |
| Length of stay at hospital (days) | 1550 | 26 (15 - 44) | 891 | 21 (13 - 37) | 659 | 32 (21 - 53) | <0.0001 |
| Non-survivor at one-year post-discharge | 1551 | 312 (20 %) | 892 | 141 (16 %) | 659 | 171 (26 %) | <0.0001 |