**Supplement 1**

| | ***Missing data group N = 50*** | | ***Total group N = 3140*** | | ***p-value*** |
|---|---|---|---|---|---|
| *Age, years** | 59.4 | 23.4 | 63.5 | 16.6 | 0.22 |
| *Gender, male** | 32 (64) | | 1793 (57) | | 0.39 |
| *Diabetes** | 3 (6) | | 515 (16) | | 0.05 |
| *COPD** | 7 (14) | | 444 (14) | | 1.00 |
| *Acute renal insufficiency* | 5 (10) | | 206 (7) | | 0.38 |
| *Chronic renal insufficiency** | 0 (0) | | 100 (3) | | 0.41 |
| *Chronic dialysis** | 0 (0) | | 23 (1) | | 1.00 |
| *Confirmed infection** | 8 (19) | | 890 (28) | | 0.12 |
| *Gastrointestinal bleeding** | 2 (4) | | 93 (3) | | 0.66 |
| *Cerebrovascular accident** | 4 (8) | | 45 (1) | | *0.01* |
| *Intracranial mass** | 1 (2) | | 18 (1) | | 0.26 |
| *Immunocompromised** | 0 (0) | | 315 (10) | | *0.01* |
| *Neoplasm** | 0 (0) | | 183 (6) | | 0.12 |
| *Cirrhosis** | 1 (2) | | 32 (1) | | 0.41 |
| *Haematological malignancy** | 0 (0) | | 54 (2) | | 1.00 |
| *Cardiovascular insufficiency** | 4 (8) | | 57 (2) | | *0.01* |
| *CPR <24 hours before admission** | 5 (10) | | 80 (3) | | *0.01* |
| *Respiratory insufficiency** | 1 (2) | | 134 (4) | | 0.72 |
| *Mechanical ventilation at the start of ICU admission** | 21 (42) | | 996 (32) | | 0.13 |
| *Mechanical ventilation after 24 hours* | 25 (50) | | 1442 (46) | | 0.57 |
| *Admission type: ** | | | | | |
| *Medical* | 39 (78) | | 2133 (68) | | |
| *Acute surgery* | 6 (12) | | 770 (25) | | |
| *Elective surgery* | 0 (0) | | 235 (8) | | |
| *Acute ICU admission** | 47 (94) | | 2949 (94) | | 1.00 |
| *IC-stay duration, days* | 0 | 0-0 | 2 | 1-4 | *0.00* |
| *Hospital stay, days* | 2 | 0-9.3 | 10 | 5-18 | *0.00* |
| *ICU survival* | 40 (90) | | 2870 (91) | | *0.01* |
| *Hospital survival* | 39 (78) | | 2748 (88) | | *0.05* |
| *One year survival* | 32 (64) | | 2427 (77) | | *0.04* |
| *APACHE III* | 67.7 | 29.8 | 64.0 | 25.2 | 0.30 |

**Table 1.**

| | ***Readmission group N = 568 (15%)*** | | ***Total group N = 3140 (85%)*** | | ***p-value*** |
|---|---|---|---|---|---|
| *Age, years** | 64.7 | 15.1 | 63.5 | 16.6 | *0.01* |
| *Gender, male** | 343 (60.4) | | 1793 (57) | | 0.18 |
| *Diabetes** | 100 (17.6) | | 515 (16) | | 0.48 |
| *COPD** | 120 (21.1) | | 444 (14) | | *0.00* |
| *Acute renal insufficiency* | 35 (6.2) | | 206 (7) | | 0.77 |
| *Chronic renal insufficiency** | 30 (5.3) | | 100 (3) | | *0.01* |
| *Chronic dialysis** | 9 (1.6) | | 23 (1) | | *0.04* |
| *Confirmed infection** | 211 (37.1) | | 890 (28) | | *0.00* |
| *Gastrointestinal bleeding** | 18 (3.2) | | 93 (3) | | 0.76 |
| *Cerebrovascular accident** | 2 (0.4) | | 45 (1) | | *0.04* |
| *Intracranial mass** | 2 (0.4) | | 18 (1) | | 0.52 |
| *Immunocompromised** | 80 (14.1) | | 315 (10) | | *0.00* |
| *Neoplasm** | 28 (4.9) | | 183 (6) | | 0.33 |
| *Cirrhosis** | 12 (2.3) | | 32 (1) | | *0.01* |
| *Haematological malignancy** | 18 (3.2) | | 54 (2) | | *0.02* |
| *Cardiovascular insufficiency** | 18 (3.2) | | 57 (2) | | *0.03* |
| *CPR <24 hours before admission** | 17 (3) | | 80 (3) | | 0.68 |
| *Respiratory insufficiency** | 60 (10.6) | | 134 (4) | | *0.00* |
| *Mechanical ventilation at the start of ICU admission** | 198 (34.9) | | 996 (32) | | 0.12 |
| *Mechanical ventilation after 24 hours* | 286 (50.4) | | 1442 (46) | | *0.04* |
| *Admission type: ** | | | | | |
| *Medical* | 451 (79.7) | | 2133 (68) | | |
| *Acute surgery* | 97 (17.1) | | 770 (25) | | |
| *Elective surgery* | 18 (3.2) | | 235 (8) | | |
| *Acute ICU admission** | 553 (97.4) | | 2949 (94) | | *0.00* |
| *IC-stay duration, days* | 2 | 1-5 | 2 | 1-4 | |
| *Hospital stay, days* | 16 | 8-35 | 10 | 5-18 | |
| *ICU survival* | | | 2870 (91) | | |
| *Hospital survival* | | | 2748 (88) | | |
| *One year survival* | 383 (67.4) | | 2427 (77) | | *0.00* |
| *APACHE III* | 68.1 | 23.1 | 64.0 | 25.2 | 0.16 |

**Table 2.**