|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Ischemic stroke | Intracerebral hemorrhage | All other ICU patients | |  |  |  |  |  | All patients |
| (except stroke) | SAH | TBI | Sepsis | sCAP | Cardiac surgery | Nonsurgical cancer |
| N (%) | 4,072 (1.1) | 2,974 (0.8) | 363,340 (98.1) | 2,650 (0.7) | 4,356 (1.2) | 24,189 (6.5) | 22,833 (6.2) | 70,044 (18.9) | 2239 (0.6) | 370,386 |
| Age (Mean (SD)) | 67.5 (13.7) | 60.7 (15.1) | 63.9 (15.4) | 58.5 (12.9) | 53.3 (20.4) | 66.9 (14.2) | 66.3 (14.5) | 66.9 (11.0) | 63.7 (13.1) | 63.9 (15.3) |
| Sex (Men, %) | 56.5 | 56.8 | 59.5 | 35.0 | 69.9 | 56.1 | 59.2 | 70.8 | 61.2 | 59.5 |
| Day-time admissions  (8:00-18:00h, %) | 37.5 | 33.3 | 55.2 | 35.3 | 28.6 | 35.3 | 36.5 | 84.3 | 39.6 | 54.9 |
| One or more chronic diagnosisa  (%) | 18.1 | 14.6 | 33.8 | 9.5 | 8.4 | 44.3 | 59.4 | 26.0 | 73.8 | 33.5 |
| APACHE IV pred. mortality in %  (Mean (SD)) | 40 (20) | 50 (20) | 20 (20) | 40 (30) | 20 (20) | 50 (20) | 40 (20) | 10 (10) | 40 (30) | 20 (20) |
| ICU Readmission rate (%) | 3.8 | 6.5 | 5.6 | 7.6 | 4.2 | 6.3 | 3.3 | 7.7 | 6.0 | 5.6 |
| GCS on admission  (Mean (SD)) | 11.1 (4.4) | 8.6 (4.7) | 13.7 (3.2) | 10.7 (4.9) | 10.0 (4.7) | 13.8 (2.6) | 13.7 (2.9) | 14.8 (1.2) | 13.3 (3.5) | 13.7 (3.2) |
| ICU LOS (days)  (Mean (SD)) | 2.9 (6.1) | 4.6 (8.4) | 3.1 (6.6) | 5.3 (8.0) | 5.3 (8.5) | 6.2 (10.1) | 6.6 (9.4) | 1.8 (3.9) | 3.9 (7.1) | 3.1 (6.7) |
| ICU mortality (%) | 696  (17) | 907 (31) | 27,702 (8) | 580 (22) | 566  (13) | 4,500 (19) | 3,347 (15) | 882 (1) | 582 (26) | 29,305  (8) |
| of which within 7 days   (% of total ICU mortality) | 605 (86.9%) | 808 (89.1%) | 21,102 (76.1%) | 499 (86.0%) | 414 (73.1%) | 3,394 (75.4%) | 2,096 (62.6%) | 532 (60.3%) | 472 (81.1%) | 22,515 (76.8%) |
| Hospital LOS (days)  (Mean (SD)) | 11.0  (13.2) | 13.9 (18.6) | 13.3  (18.1) | 14.3 (15.3) | 14.5 (16.6) | 20.7 (22.1) | 17.3 (23.1) | 10.6 (10.4) | 15.4 (17.5) | 13.3 (18.1) |
| Hospital mortality (N (%)) | 1,172 (29) | 1,210 (41) | 42,175  (12) | 722 (27) | 747 (17) | 6,236 (26) | 5,193 (23) | 1,475 (2) | 850 (38) | 44,557 (12) |
| 30 days mortality (N (%)) | 1,280 (31) | 1,263 (42) | 45,253 (13) | 748 (28) | 776 (18) | 6,358 (26) | 5,516 (24) | 1,535  (2) | 969  (43) | 47,796 (13) |
| 3 months mortality (N (%)) | 1,476 (36) | 1,401 (47) | 57,343 (16) | 817 (31) | 881 (20) | 7,694 (32) | 7,026 (31) | 2,278 (3) | 1,218 (54) | 60,220 (16) |
| 1 year mortality (N (%)) | 1,663 (41) | 1,519 (51) | 78,214 (22) | 856 (32) | 987 (23) | 9,394 (39) | 8,909 (39) | 3,505 (5) | 1,556 (70) | 81,396 (22) |
| Total amount of deceased patients (N (%)) | 1,783 (44) | 1,583 (53) | 96,119  (27) | 879 (33) | 1,058 (24) | 10,638 (44) | 10,480 (46) | 5,106 (7) | 1,689 (75) | 99,485 (27) |
| Follow-up in months  (Mean (SD)) | 13.3 (12.2) | 11.1 (12.2) | 17.5 (11.3) | 14.7 (12.3) | 17.5 (11.7) | 13.9 (12.0) | 13.8 (11.8) | 21.4 (9.7) | 7.2 (9.6) | 17.4 (11.3) |
| 1 year follow-up (N (%)) | 2,084 (51.2) | 1,249 (42.0) | 242,017 (66.6) | 1,474 (55.6) | 2,936 (67.4) | 12,684 (52.4) | 11,859 (51.9) | 56,209 (80.2) | 570 (25.5) | 245,350 (66.2) |
| 2 year follow-up (N (%))  SAH = subarachnoid haemorrhage; TBI = traumatic brain injury; sCAP = severe community-acquired pneumonia; APACHE = Acute Physiology and Chronic Health Evaluation;  GCS = Glascow Coma Scale; LOS = length of stay a Chronic diagnoses: COPD, respiratory insufficiency, renal insufficiency, cirrhosis, cardiac insufficiency, malignancy, AIDS/immune deficiency | 1,029 (25.3) | 661 (22.2) | 92,522 (25.5) | 803 (30.3) | 1,616 (37.1) | 6,465 (26.7) | 5,706 (25.0) | 33,097 (47.3) | 190 (8.5) | 128,568 (34.7) |

**Supplemental Table 1.** Demographics, length of stay & mortality and follow-up in ischemic stroke and intracerebral hemorrhage patients, all other ICU patients and all six investigated diagnostic subgroups