|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 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 staya 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