Supplementary materials

**Supplementary Table 1. Intracerebral Hemorrhage (I61-I62) — case fatality ratio at SU**

|  |  |  |  |
| --- | --- | --- | --- |
| **Year** | **30-day** | **90-day** | **1-year** |
| **2010** | 0.27 | 0.32 | 0.36 |
| **2011** | 0.28 | 0.32 | 0.37 |
| **2012** | 0.28 | 0.33 | 0.37 |
| **2013** | 0.28 | 0.33 | 0.38 |
| **2014** | 0.28 | 0.33 | 0.37 |
| **2015** | 0.28 | 0.33 | 0.38 |
| **2016** | 0.27 | 0.32 | 0.37 |
| **2017** | 0.27 | 0.32 | 0.37 |
| **2018** | 0.27 | 0.32 | 0.37 |
| **2019** | 0.26 | 0.30 | 0.35 |

**Supplementary Table 2.** The percentage of hemorrhagic stroke subtypes in patients under 45 years old

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Year** | **I61** | **I61.0** | **I61.1** | **I61.2** | **I61.3** | **I61.4** | **I61.5** | **I61.6** | **I61.8** | **I61.9** | **I62** | **I62.0** | **I62.1** | **I62.9** |
| **2010** | 7.5% | 25.6% | 8.4% | 6.6% | 2.5% | 3.8% | 4.9% | 5.9% | 10.0% | 16.8% | 1.8% | 1.6% | 1.1% | 3.6% |
| **2011** | 6.9% | 26.7% | 7.2% | 5.7% | 5.7% | 3.1% | 4.8% | 6.4% | 11.3% | 15.9% | 0.5% | 1.8% | 0.3% | 3.7% |
| **2012** | 7.3% | 23.6% | 6.9% | 7.3% | 4.6% | 2.9% | 4.3% | 7.6% | 10.7% | 16.5% | 0.6% | 2.8% | 0.6% | 4.2% |
| **2013** | 5.1% | 23.6% | 6.0% | 8.9% | 6.1% | 2.9% | 4.0% | 5.9% | 12.1% | 14.7% | 1.7% | 3.7% | 0.4% | 4.9% |
| **2014** | 6.3% | 20.6% | 7.8% | 6.7% | 4.5% | 3.5% | 6.2% | 7.7% | 10.5% | 16.7% | 1.6% | 1.8% | 1.2% | 4.9% |
| **2015** | 6.4% | 24.5% | 7.1% | 7.9% | 4.9% | 3.9% | 5.1% | 5.4% | 11.3% | 15.2% | 0.8% | 2.7% | 0.8% | 4.2% |
| **2016** | 6.0% | 20.5% | 6.3% | 8.6% | 4.6% | 4.0% | 5.9% | 6.7% | 10.5% | 17.2% | 0.8% | 3.1% | 0.9% | 5.1% |
| **2017** | 9.3% | 19.4% | 6.1% | 7.9% | 4.3% | 3.3% | 4.5% | 7.1% | 11.6% | 16.5% | 1.7% | 2.9% | 0.5% | 4.9% |
| **2018** | 9.0% | 20.5% | 6.0% | 8.3% | 5.1% | 3.1% | 4.4% | 6.6% | 12.3% | 14.7% | 0.9% | 3.7% | 0.8% | 4.4% |
| **2019** | 8.7% | 19.5% | 5.0% | 10.4% | 5.4% | 2.9% | 3.0% | 7.2% | 12.9% | 17.7% | 0.8% | 2.6% | 0.7% | 3.3% |
| I61 — Nontraumatic intracerebral hemorrhage; I61.0 — Nontraumatic intracerebral hemorrhage in hemisphere, subcortical; I61.1 — Nontraumatic intracerebral hemorrhage in hemisphere, cortical; I61.2 — Nontraumatic intracerebral hemorrhage in hemisphere, unspecified; I61.3 — Nontraumatic intracerebral hemorrhage in brain stem; I61.4 — Nontraumatic intracerebral hemorrhage in cerebellum; I61.5 — Nontraumatic intracerebral hemorrhage, intraventricular; I61.6 — Nontraumatic intracerebral hemorrhage, multiple localized; I61.8 — Other nontraumatic intracerebral hemorrhage; I61.9 — Nontraumatic intracerebral hemorrhage, unspecified; I62 — Other and unspecified nontraumatic intracranial hemorrhage; I62.0 — Nontraumatic subdural hemorrhage; I62.1 — Nontraumatic extradural hemorrhage; I62.9 — Nontraumatic intracranial hemorrhage, unspecified | | | | | | | | | | | | | | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Supplementary Table 3.** The percentage of hemorrhagic stroke subtypes in patients above 44 years old | | | | | | | | | | | | | | |
| **Year** | **I61** | **I61.0** | **I61.1** | **I61.2** | **I61.3** | **I61.4** | **I61.5** | **I61.6** | **I61.8** | **I61.9** | **I62** | **I62.0** | **I62.1** | **I62.9** |
| **2010** | 3.7% | 34.6% | 9.0% | 9.8% | 2.7% | 4.6% | 4.0% | 6.2% | 7.1% | 12.3% | 0.7% | 2.2% | 0.6% | 2.5% |
| **2011** | 3.1% | 33.2% | 8.1% | 9.4% | 3.3% | 5.0% | 4.3% | 7.0% | 7.7% | 12.7% | 0.5% | 2.3% | 0.5% | 3.0% |
| **2012** | 4.2% | 34.0% | 8.0% | 8.8% | 3.1% | 4.7% | 3.8% | 6.6% | 7.7% | 12.7% | 0.5% | 2.7% | 0.6% | 2.7% |
| **2013** | 4.1% | 32.2% | 7.9% | 9.0% | 3.0% | 4.6% | 3.3% | 7.5% | 8.1% | 13.1% | 0.5% | 2.9% | 0.7% | 3.0% |
| **2014** | 3.5% | 32.3% | 8.0% | 8.9% | 2.8% | 5.0% | 3.7% | 6.9% | 8.2% | 14.0% | 0.4% | 2.7% | 0.8% | 2.9% |
| **2015** | 3.2% | 33.0% | 8.1% | 9.0% | 2.7% | 4.8% | 3.3% | 7.4% | 8.6% | 13.2% | 0.4% | 2.8% | 0.7% | 2.9% |
| **2016** | 4.0% | 30.8% | 7.4% | 9.3% | 2.6% | 4.4% | 3.2% | 7.3% | 8.8% | 13.8% | 0.7% | 3.3% | 0.8% | 3.7% |
| **2017** | 4.8% | 30.9% | 7.5% | 9.5% | 2.8% | 4.6% | 3.3% | 7.4% | 8.6% | 12.9% | 0.6% | 2.9% | 0.7% | 3.4% |
| **2018** | 5.1% | 29.6% | 7.4% | 9.9% | 2.7% | 4.7% | 3.2% | 7.0% | 9.0% | 13.3% | 0.6% | 3.1% | 0.7% | 3.6% |
| **2019** | 4.8% | 29.3% | 7.1% | 9.7% | 2.7% | 4.5% | 2.8% | 7.5% | 9.2% | 14.2% | 0.6% | 3.4% | 0.8% | 3.6% |

I61 — Nontraumatic intracerebral hemorrhage; I61.0 — Nontraumatic intracerebral hemorrhage in hemisphere, subcortical; I61.1 — Nontraumatic intracerebral hemorrhage in hemisphere, cortical; I61.2 — Nontraumatic intracerebral hemorrhage in hemisphere, unspecified; I61.3 — Nontraumatic intracerebral hemorrhage in brain stem; I61.4 — Nontraumatic intracerebral hemorrhage in cerebellum; I61.5 — Nontraumatic intracerebral hemorrhage, intraventricular; I61.6 — Nontraumatic intracerebral hemorrhage, multiple localized; I61.8 — Other nontraumatic intracerebral hemorrhage; I61.9 — Nontraumatic intracerebral hemorrhage, unspecified; I62 — Other and unspecified nontraumatic intracranial hemorrhage; I62.0 — Nontraumatic subdural hemorrhage; I62.1 — Nontraumatic extradural hemorrhage; I62.9 — Nontraumatic intracranial hemorrhage, unspecified

**Supplementary Table 4**. The number of hospitalizations and hospitalizations in the stroke units (SU) due to ischemic strokes (IS) and hemorrhagic strokes (HS) each year

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **IS** | | | **HS** | | |
| **Year** | **Hospitalizations** | **SU** | **SU (%)** | **Hospitalizations** | **SU** | **SU (%)** |
| **2010** | 82,134 | 68,095 | 82.9% | 12,614 | 8,604 | 68.2% |
| **2011** | 80,829 | 66,909 | 82.8% | 12,260 | 8,402 | 68.5% |
| **2012** | 81,582 | 69,201 | 84.8% | 12,400 | 8,662 | 69.9% |
| **2013** | 80,839 | 69,423 | 85.9% | 12,448 | 8,658 | 69.6% |
| **2014** | 78,899 | 69,340 | 87.9% | 12,454 | 8,883 | 71.3% |
| **2015** | 77,579 | 69,368 | 89.4% | 12,374 | 8,838 | 71.4% |
| **2016** | 76,233 | 68,328 | 89.6% | 12,092 | 8,354 | 69.1% |
| **2017** | 76,474 | 69,609 | 91.0% | 11,939 | 8,447 | 70.8% |
| **2018** | 76,264 | 69,872 | 91.6% | 12,018 | 8,442 | 70.2% |
| **2019** | 77,095 | 71,229 | 92.4% | 11,936 | 8,229 | 68.9% |

**Supplementary Table 5.** The number of hospitalizations and hospitalizations in the stroke units (SU) due to ischemic strokes (IS) each year in two age groups

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **18-44** | | | **> 44** | | |
| **Year** | **Hospitalizations** | **SU** | **SU (%)** | **Hospitalizations** | **SU** | **SU (%)** |
| **2010** | 1,456 | 1,282 | 88.0% | 80,678 | 66,813 | 82.8% |
| **2011** | 1,479 | 1,273 | 86.1% | 79,350 | 65,636 | 82.7% |
| **2012** | 1,578 | 1,415 | 89.7% | 80,004 | 67,786 | 84.7% |
| **2013** | 1,565 | 1,397 | 89.3% | 79,274 | 68,026 | 85.8% |
| **2014** | 1,661 | 1,520 | 91.5% | 77,238 | 67,820 | 87.8% |
| **2015** | 1,623 | 1,476 | 90.9% | 75,956 | 67,892 | 89.4% |
| **2016** | 1,686 | 1,512 | 89.7% | 74,547 | 66,816 | 89.6% |
| **2017** | 1,858 | 1,694 | 91.2% | 74,616 | 67,915 | 91.0% |
| **2018** | 1,868 | 1,705 | 91.3% | 74,396 | 68,167 | 91.6% |
| **2019** | 2,032 | 1,833 | 90.2% | 75,063 | 69,396 | 92.5% |

**Supplementary Table** **6.** The number of hospitalizations and hospitalizations in the stroke units (SU) due to hemorrhagic strokes (HS) each year in two age groups

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **18–44** | | | **> 44** | | |
| **Year** | **Hospitalizations** | **SU** | **SU (%)** | **Hospitalizations** | **SU** | **SU (%)** |
| **2010** | 722 | 353 | 48.9% | 11,892 | 8,251 | 69.4% |
| **2011** | 696 | 340 | 48.9% | 11,564 | 8,062 | 69.7% |
| **2012** | 702 | 348 | 49.6% | 11,698 | 8,314 | 71.1% |
| **2013** | 697 | 357 | 51.2% | 11,751 | 8,301 | 70.6% |
| **2014** | 670 | 336 | 50.1% | 11,784 | 8,547 | 72.5% |
| **2015** | 698 | 335 | 48.0% | 11,676 | 8,503 | 72.8% |
| **2016** | 700 | 323 | 46.1% | 11,392 | 8,031 | 70.5% |
| **2017** | 721 | 357 | 49.5% | 11,218 | 8,090 | 72.1% |
| **2018** | 758 | 371 | 48.9% | 11,260 | 8,071 | 71.7% |
| **2019** | 728 | 321 | 44.1% | 11,208 | 7,908 | 70.6% |

**Supplementary Table 7.** The percentage of patients with ischemic strokes (IS) and hemorrhagic strokes (HS) each year in two age groups

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **IS** | | **HS** | |
| **Year** | **18–44** | **45–74+** | **18–44** | **45–74+** |
| **2010** | 1.8% | 98.2% | 5.9% | 94.1% |
| **2011** | 1.8% | 98.2% | 5.8% | 94.2% |
| **2012** | 1.9% | 98.1% | 5.8% | 94.2% |
| **2013** | 1.9% | 98.1% | 5.7% | 94.3% |
| **2014** | 2.1% | 97.9% | 5.5% | 94.5% |
| **2015** | 2.1% | 97.9% | 5.6% | 94.4% |
| **2016** | 2.2% | 97.8% | 6.0% | 94.0% |
| **2017** | 2.4% | 97.6% | 6.2% | 93.8% |
| **2018** | 2.4% | 97.6% | 6.5% | 93.5% |
| **2019** | 2.6% | 97.4% | 6.4% | 93.6% |
| **All years** | 6.3% | 93.7% | 2.1% | 97.9% |

**Supplementary Table** **8.** Ischemic Stroke (I63) — age-standardized hospitalization rates per 100,000 in age group 18–44

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Hospitalizations** | **SU hospitalizations** | **FES** |
| **2010** | 11.48 (10.96–12.00) | 10.12 (9.642–10.61) | 10.48 (9.99–10.97) |
| **2011** | 11.55 (11.03–12.07) | 9.92 (9.43–10.40) | 10.23 (9.74–10.72) |
| **2012** | 12.00 (11.46–12.54) | 10.77 (10.25–11.28) | 10.65 (10.14–11.16) |
| **2013** | 11.65 (11.11–12.18) | 10.38 (9.874–10.88) | 10.09 (9.59–10.59) |
| **2014** | 12.23 (11.68–12.78) | 11.18 (10.65–11.71) | 10.93 (10.40–11.45) |
| **2015** | 11.73 (11.18–12.29) | 10.68 (10.16–11.21) | 10.49 (9.97–11.01) |
| **2016** | 12.05 (11.48–12.61) | 10.81 (10.28–11.35) | 10.14 (9.62–10.66) |
| **2017** | 13.20 (12.60–13.80) | 12.02 (11.45–12.60) | 11.01 (10.46–11.56) |
| **2018** | 13.17 (12.56–13.78) | 12.02 (11.44–12.60) | 11.17 (10.61–11.73) |
| **2019** | 14.38 (13.73–15.02) | 12.95 (12.34–13.56) | 11.92 (11.33–12.51) |

The data are presented as age-standardized values per 100k of population with 95% confidence interval

FES— first-ever stroke; SU— number of admissions to stroke units

**Supplementary Table** **9.** Intracerebral Hemorrhage (I61-I62) — age-standardized hospitalization rates per 100,000 in age group 18–44

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Hospitalizations** | **SU hospitalizations** | **FES** |
| **2010** | 5.49 (5.12–5.85) | 2.72 (2.47–2.98) | 4.46 (4.13–4.79) |
| **2011** | 5.26 (4.90–5.61) | 2.59 (2.34–2.84) | 4.14 (3.82–4.46) |
| **2012** | 5.24 (4.88–5.60) | 2.62 (2.37–2.88) | 4.28 (3.95–4.60) |
| **2013** | 5.11 (4.75–5.47) | 2.64 (2.38–2.90) | 3.95 (3.64–4.27) |
| **2014** | 4.87 (4.52–5.23) | 2.45 (2.21–2.70) | 3.79 (3.48–4.10) |
| **2015** | 5.05 (4.69–5.41) | 2.44 (2.19–2.69) | 3.82 (3.50–4.13) |
| **2016** | 4.97 (4.60–5.33) | 2.29 (2.04–2.53) | 3.86 (3.54–4.18) |
| **2017** | 5.14 (4.77–5.51) | 2.53 (2.27–2.79) | 3.92 (3.59–4.24) |
| **2018** | 5.35 (4.96–5.74) | 2.62 (2.35–2.89) | 4.13 (3.79–4.47) |
| **2019** | 5.17 (4.79–5.56) | 2.26 (2.01–2.52) | 4.03 (3.69–4.37) |

The data are presented as age-standardized values per 100k of population with 95% confidence interval

FES— first-ever stroke; SU — number of admissions to stroke units

**Supplementary Table** **10.** Ischemic Stroke (I63) — age-standardized hospitalization rates per 100,000 in age group above 44

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Hospitalizations** | **SU hospitalizations** | **FES** |
| **2010** | 637.78 (634.27–641.29) | 527.53 (524.34–530.73) | 591.07 (587.70–594.45) |
| **2011** | 612.33 (608.87–615.78) | 505.94 (502.80–509.09) | 543.49 (540.23–546.75) |
| **2012** | 603.31 (599.86–606.76) | 510.47 (507.29–513.64) | 519.43 (516.23–522.63) |
| **2013** | 582.82 (579.40–586.23) | 499.60 (496.43–502.76) | 490.42 (487.28–493.55) |
| **2014** | 553.28 (549.94–556.63) | 485.52 (482.38–488.66) | 458.66 (455.61–461.71) |
| **2015** | 531.44 (528.14–534.74) | 474.81 (471.69–477.93) | 436.34 (433.35–439.33) |
| **2016** | 507.00 (503.76–510.24) | 454.27 (451.20–457.33) | 394.15 (391.29–397.01) |
| **2017** | 496.33 (493.12–499.55) | 451.65 (448.58–454.71) | 383.21 (380.39–386.04) |
| **2018** | 484.24 (481.06–487.42) | 443.67 (440.62–446.72) | 370.69 (367.91–373.47) |
| **2019** | 478.13 (474.96–481.29) | 442.06 (439.01–445.10) | 357.94 (355.20–360.68) |

The data are presented as age-standardized values per 100k of population with 95% confidence interval

FES — first-ever stroke; SU — number of admissions to stroke units

**Supplementary Table** **10.** Intracerebral Hemorrhage (I61-I62) — age-standardized hospitalization rates per 100,000 in age group above 44

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Hospitalizations** | **SU hospitalizations** | **FES** |
| **2010** | 90.65 (89.30–91.99) | 63.42 (62.30–64.54) | 78.90 (77.65–80.16) |
| **2011** | 86.53 (85.21–87.85) | 60.62 (59.52–61.72) | 73.13 (71.92–74.34) |
| **2012** | 85.67 (84.35–86.99) | 61.33 (60.22–62.44) | 71.19 (69.98–72.39) |
| **2013** | 84.79 (83.47–86.10) | 60.21 (59.10–61.31) | 68.69 (67.51–69.87) |
| **2014** | 82.75 (81.45–84.06) | 60.36 (59.24–61.47) | 66.19 (65.02–67.36) |
| **2015** | 80.56 (79.27–81.85) | 58.93 (57.83–60.04) | 65.00 (63.83–66.16) |
| **2016** | 76.64 (75.37–77.90) | 54.21 (53.15–55.27) | 57.77 (56.67–58.87) |
| **2017** | 74.19 (72.94–75.43) | 53.73 (52.67–54.79) | 56.21 (55.13–57.30) |
| **2018** | 73.16 (71.93–74.40) | 52.66 (51.62–53.71) | 54.55 (53.48–55.62) |
| **2019** | 71.38 (70.15–72.60) | 50.48 (49.45–51.50) | 52.56 (51.51–53.61) |

The data are presented as age-standardized values per 100k of population with 95% confidence interval

FES— first-ever stroke; SU— number of admissions to stroke units

**Supplementary Table** **11.** The number and percentage of deaths due to ischemic stroke (IS) and hemorrhagic stroke (HS) in specific age groups in 2010 and 2019

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  | **IS** | | **HS** | |
| **Age group** | **Indicator** | **2010** | **2019** | **2010** | **2019** |
| **18–44** | ***30-day*** | 50 | 52 | 173 | 174 |
| ***90-day*** | 71 | 65 | 185 | 185 |
| ***1-year*** | 101 | 84 | 203 | 203 |
| ***All death cases*** | 232 | 99 | 271 | 222 |
| ***30-day (%)*** | 21.6% | 52.5% | 63.8% | 78.4% |
| ***90-day (%)*** | 30.6% | 65.7% | 68.3% | 83.3% |
| ***1-year (%)*** | 43.5% | 84.8% | 74.9% | 91.4% |
| **45–65** | ***30-day*** | 1558 | 1103 | 1538 | 985 |
| ***90-day*** | 2142 | 1564 | 1704 | 1126 |
| ***1-year*** | 3210 | 2293 | 1959 | 1273 |
| ***All death cases*** | 10048 | 2590 | 2854 | 1362 |
| ***30-day (%)*** | 15.5% | 42.6% | 53.9% | 72.3% |
| ***90-day (%)*** | 21.3% | 60.4% | 59.7% | 82.7% |
| ***1-year (%)*** | 31.9% | 88.5% | 68.6% | 93.5% |
| **> 65** | ***30-day*** | 11596 | 9185 | 3249 | 3168 |
| ***90-day*** | 16462 | 13363 | 3884 | 3753 |
| ***1-year*** | 22520 | 18274 | 4485 | 4297 |
| ***All death cases*** | 47443 | 20489 | 6398 | 4594 |
| ***30-day (%)*** | 24.4% | 44.8% | 50.8% | 69.0% |
| ***90-day (%)*** | 34.7% | 65.2% | 60.7% | 81.7% |
| ***1-year (%)*** | 47.5% | 89.2% | 70.1% | 93.5% |

**Supplementary Table** **12.**  The number of patients with ischemic stroke (IS) in specific age groups in 2010 and 2019

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Year** | **Age groups** | | | **Total** |  | **Age groups** | |  | **Total** | **Total** |
|  | **18–24** | **25–34** | **35–44** |  | **45–54** | **55–64** | **65-74** | **> 74** |  |  |
| **2010** | 67 | 335 | 951 | 1,353 | 4,841 | 14,577 | 17,775 | 37,717 | 74,910 | **76,263** |
| **2011** | 79 | 311 | 991 | 1,381 | 4462 | 14,816 | 17,706 | 39,035 | 76,019 | **77,400** |
| **2012** | 77 | 352 | 1,067 | 1,496 | 4,234 | 15,016 | 18,200 | 39,149 | 76,599 | **78,095** |
| **2013** | 66 | 363 | 1,034 | 1,463 | 4072 | 14,441 | 18,365 | 38,874 | 75,752 | **77,215** |
| **2014** | 75 | 393 | 1,113 | 1,581 | 3,660 | 13,920 | 18,328 | 37,938 | 73,846 | **75,427** |
| **2015** | 65 | 384 | 1,096 | 1,545 | 3,494 | 13,302 | 18,383 | 37,397 | 72,576 | **74,121** |
| **2016** | 74 | 376 | 1,140 | 1,590 | 3,452 | 12,936 | 18,962 | 35,951 | 71,301 | **72,891** |
| **2017** | 75 | 384 | 1,280 | 1,739 | 3,460 | 12,646 | 19,987 | 35,284 | 71,377 | **73,116** |
| **2018** | 72 | 426 | 1,262 | 1,760 | 3524 | 12,357 | 20,961 | 34,112 | 70,954 | **72,714** |
| **2019** | 92 | 450 | 1,305 | 1,847 | 3,483 | 11,734 | 21,178 | 32,221 | 68,616 | **70,463** |

**Supplementary Table** **13.**  The number of patients with hemorrhagic stroke (HS) in specific age groups in 2010 and 2019

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Year** | **Age groups** | | | **Total** |  | **Age groups** | |  | **Total** | **Total** |
|  | **18–24** | **25–34** | **35–44** |  | **45–54** | **55–64** | **65–74** | **> 74** |  |  |
| **2010** | 65 | 184 | 370 | 669 | 1,313 | 2,406 | 2,375 | 4,543 | 10,637 | 11,306 |
| **2011** | 57 | 170 | 383 | 660 | 1,160 | 2,517 | 2,400 | 4,670 | 10,747 | 11,407 |
| **2012** | 49 | 159 | 409 | 667 | 1,189 | 2,472 | 2,439 | 4,815 | 10,915 | 11,582 |
| **2013** | 49 | 164 | 389 | 652 | 1,050 | 2,393 | 2,525 | 4,918 | 10,886 | 11,538 |
| **2014** | 60 | 155 | 373 | 638 | 989 | 2,404 | 2,593 | 4,999 | 10,985 | 11,623 |
| **2015** | 34 | 142 | 422 | 648 | 1,004 | 2,298 | 2,645 | 4,957 | 10,904 | 11,552 |
| **2016** | 44 | 179 | 397 | 670 | 928 | 2,166 | 2,725 | 4,757 | 10,576 | 11,246 |
| **2017** | 47 | 150 | 444 | 691 | 934 | 2,062 | 2,750 | 4,740 | 10,486 | 11,177 |
| **2018** | 29 | 175 | 473 | 727 | 931 | 2,007 | 2,779 | 4,756 | 10,473 | 11,200 |
| **2019** | 39 | 159 | 433 | 681 | 885 | 1,925 | 2,773 | 4,455 | 10,038 | 10,719 |

**Supplementary Table** **14. Ischemic Stroke (I63)— case fatality ratio at SU**

|  |  |  |  |
| --- | --- | --- | --- |
| Year | **30-day** | **90-day** | **1-year** |
| 2010 | 0.13 | 0.19 | 0.26 |
| 2011 | 0.13 | 0.19 | 0.26 |
| 2012 | 0.13 | 0.19 | 0.26 |
| 2013 | 0.14 | 0.19 | 0.26 |
| 2014 | 0.13 | 0.19 | 0.27 |
| 2015 | 0.14 | 0.20 | 0.27 |
| 2016 | 0.13 | 0.20 | 0.27 |
| 2017 | 0.13 | 0.20 | 0.27 |
| 2018 | 0.13 | 0.19 | 0.27 |
| 2019 | 0.13 | 0.19 | 0.26 |

**Supplementary Table** **15. Ischemic Stroke (I63) fatality in specific age groups.**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **18–44** | | | **45–65** | | | **> 65** | | |
| **Year** | **30-day** | **90-day** | **1-year** | **30-day** | **90-day** | **1-year** | **30-day** | **90-day** | **1-year** |
| **2010** | 0.03 | 0.05 | 0.07 | 0.07 | 0.1 | 0.15 | 0.2 | 0.29 | 0.40 |
| **2011** | 0.04 | 0.05 | 0.07 | 0.08 | 0.1 | 0.14 | 0.2 | 0.29 | 0.39 |
| **2012** | 0.03 | 0.04 | 0.05 | 0.07 | 0.1 | 0.14 | 0.2 | 0.29 | 0.38 |
| **2013** | 0.03 | 0.04 | 0.05 | 0.07 | 0.1 | 0.14 | 0.2 | 0.29 | 0.38 |
| **2014** | 0.03 | 0.04 | 0.05 | 0.07 | 0.1 | 0.14 | 0.19 | 0.27 | 0.37 |
| **2015** | 0.03 | 0.04 | 0.06 | 0.07 | 0.1 | 0.14 | 0.19 | 0.28 | 0.38 |
| **2016** | 0.02 | 0.03 | 0.04 | 0.07 | 0.09 | 0.14 | 0.19 | 0.27 | 0.37 |
| **2017** | 0.02 | 0.03 | 0.05 | 0.07 | 0.09 | 0.13 | 0.18 | 0.27 | 0.37 |
| **2018** | 0.02 | 0.03 | 0.04 | 0.06 | 0.09 | 0.13 | 0.18 | 0.26 | 0.36 |
| **2019** | 0.04 | 0.03 | 0.04 | 0.06 | 0.09 | 0.13 | 0.17 | 0.25 | 0.34 |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Supplementary Table** **16.** The percentage of ischemic stroke subtypes in patients above 44 years old | | | | | | | | | | |
| **Year** | **I63** | **I63.0** | **I63.1** | **I63.2** | **I63.3** | **I63.4** | **I63.5** | **I63.6** | **I63.8** | **I63.9** |
| **2010** | 1.8% | 2.9% | 1.0% | 3.8% | 17.8% | 8.6% | 20.6% | 0.1% | 13.0% | 30.4% |
| **2011** | 1.1% | 2.4% | 1.1% | 4.2% | 18.7% | 10.1% | 20.3% | 0.1% | 12.7% | 29.4% |
| **2012** | 1.3% | 2.2% | 1.0% | 3.6% | 20.1% | 11.3% | 19.5% | 0.1% | 13.1% | 27.7% |
| **2013** | 1.4% | 2.0% | 1.0% | 3.1% | 21.4% | 12.4% | 17.4% | 0.1% | 12.8% | 28.3% |
| **2014** | 1.6% | 2.1% | 1.1% | 2.8% | 23.1% | 13.8% | 16.2% | 0.1% | 12.5% | 26.6% |
| **2015** | 1.2% | 2.3% | 1.1% | 2.7% | 24.2% | 15.5% | 15.1% | 0.1% | 12.4% | 25.4% |
| **2016** | 2.0% | 2.2% | 0.9% | 2.8% | 25.9% | 16.6% | 13.5% | 0.1% | 11.9% | 24.2% |
| **2017** | 2.4% | 2.2% | 0.9% | 2.7% | 27.7% | 18.1% | 12.6% | 0.2% | 10.6% | 22.6% |
| **2018** | 2.8% | 2.2% | 1.0% | 2.8% | 28.1% | 19.6% | 11.5% | 0.1% | 10.2% | 21.8% |
| **2019** | 2.9% | 2.1% | 0.9% | 3.1% | 28.7% | 19.3% | 11.8% | 0.1% | 9.2% | 22.0% |

I63 — Cerebral infarction; I63.0 — Cerebral infarction due to thrombosis of precerebral arteries; I63.1 — Cerebral infarction due to embolism of precerebral arteries; I63.2 — Cerebral infarction due to unspecified occlusion or stenosis of precerebral arteries; I63.3 — Cerebral infarction due to thrombosis of cerebral arteries; I63.4 — Cerebral infarction due to embolism of cerebral arteries; I63.5 — Cerebral infarction due to unspecified occlusion or stenosis of cerebral arteries; I63.6 — Cerebral infarction due to cerebral venous thrombosis, nonpyogenic; I63.8 — Other cerebral infarction; I63.9 — Cerebral infarction, unspecified