

Table 1. Migraine burden among adolescents aged 10–19 years in 2021 and long-term trends (1990–2021).

| Location | Incidence                             |                              |                          | Prevalence                               |                                    |                           | YLDs                              |                           |                           |
|----------|---------------------------------------|------------------------------|--------------------------|------------------------------------------|------------------------------------|---------------------------|-----------------------------------|---------------------------|---------------------------|
|          | No.<br>(95% UI)                       | ASIR<br>(95% UI)             | AAPC<br>(95% CI), %      | No.<br>(95% UI)                          | ASPR<br>(95% UI)                   | AAPC<br>(95% CI), %       | No.<br>(95% UI)                   | ASyr<br>(95% UI)          | AAPC<br>(95% CI), %       |
| Global   | 25,713,886<br>(19,145,764–33,778,528) | 1992.37<br>(1483.46–2617.24) | 0.04<br>(0.01–0.07)      | 188,274,040<br>(144,988,898–241,499,918) | 14,587.92<br>(11,234.09–18,711.99) | 0.07<br>(0.05–0.08)       | 6,930,930<br>(475,886–16,967,500) | 537.03<br>(36.87–1314.68) | 0.06<br>(0.04–0.09)       |
| China    | 2,557,730<br>(1,886,725–3,392,373)    | 1589.98<br>(1172.86–2108.83) | 0.27<br>(0.24–0.3)       | 16,542,731<br>(12,466,583–21,444,877)    | 10,283.6<br>(7749.71–13,330.97)    | 0.08<br>(0.01–0.15)       | 613,794<br>(47,167–1,491,603)     | 381.56<br>(29.32–927.24)  | 0.07<br>(0.002–0.14)      |
| US       | 1,124,890<br>(837,381–1,484,786)      | 2618.87<br>(1949.51–3456.74) | 0.05<br>(0.03–0.08)      | 7,057,157<br>(5,317,086–8,991,403)       | 16,429.83<br>(12,378.76–20,932.97) | –0.09<br>(–0.15 to –0.02) | 253,318<br>(17,047–609,563)       | 589.75<br>(39.69–1419.13) | –0.12<br>(–0.18 to –0.05) |
| Germany  | 218,232<br>(154,119–292,304)          | 2774.98<br>(1959.74–3716.85) | 0.003<br>(–0.02 to 0.03) | 1,579,898<br>(1,170,519–2,017,543)       | 20,089.51<br>(14,883.97–25,654.47) | 0.03<br>(–0.04 to 0.11)   | 56,651<br>(3062–141,204)          | 720.36<br>(38.94–1795.51) | 0.03<br>(–0.06 to 0.13)   |

AAPC: average annual percent change; ASIR: age-standardised incidence rate; ASPR: age-standardised prevalence rate; ASyr: age-standardised YLD rate; UI: uncertainty interval; YLDs: years lived with disability  
All rates are expressed per 100,000 population.

Table 2. Tension-type headache burden among adolescents aged 10–19 years in 2021 and long-term trends (1990–2021).

| Location | Incidence                               |                                  |                           | Prevalence                               |                                    |                           | YLDs                          |                        |                          |
|----------|-----------------------------------------|----------------------------------|---------------------------|------------------------------------------|------------------------------------|---------------------------|-------------------------------|------------------------|--------------------------|
|          | No.<br>(95% UI)                         | ASIR<br>(95% UI)                 | AAPC<br>(95% CI), %       | No.<br>(95% UI)                          | ASPR<br>(95% UI)                   | AAPC<br>(95% CI), %       | No.<br>(95% UI)               | ASyr<br>(95% UI)       | AAPC<br>(95% CI), %      |
| Global   | 135,457,152<br>(95,795,037–176,341,550) | 10,495.54<br>(7422.43–13,663.36) | 0.04<br>(0.02–0.06)       | 346,026,054<br>(256,330,678–443,093,783) | 26,810.93<br>(19,861.11–34,331.97) | 0.03<br>(0.01–0.04)       | 531,662<br>(89,559–2,606,793) | 41.19<br>(6.94–201.98) | 0.03<br>(0.02–0.05)      |
| China    | 12,957,217<br>(8,997,277–17,184,303)    | 8054.71<br>(5593.06–10,682.43)   | 0.31<br>(0.25–0.33)       | 33,211,545<br>(24,778,357–43,127,657)    | 20,645.59<br>(15,403.19–26,809.83) | 0.21<br>(0.19–0.24)       | 51,627<br>(9330–255,412)      | 32.09<br>(5.8–158.77)  | 0.05<br>(–0.01 to 0.11)  |
| US       | 6,312,654<br>(4,491,626–8,091,919)      | 14,696.55<br>(10,457–18,838.87)  | –0.04<br>(–0.05 to –0.04) | 15,768,559<br>(11,975,767–19,746,501)    | 36,710.93<br>(27,880.89–45,972.01) | –0.05<br>(–0.06 to –0.03) | 23,235<br>(3243–113,990)      | 54.09<br>(7.55–265.38) | –0.03<br>(–0.05 to 0)    |
| Germany  | 1,029,171<br>(728,023–1,338,941)        | 13,086.63<br>(9257.32–17,025.57) | 0.02<br>(0–0.04)          | 2,640,669<br>(1,913,743–3,450,213)       | 33,577.95<br>(24,334.58–43,871.87) | –0.002<br>(–0.04 to 0.04) | 3965<br>(550–18,837)          | 50.42<br>(6.99–239.52) | –0.01<br>(–0.09 to 0.07) |

AAPC: average annual percent change; ASIR: age-standardised incidence rate; ASPR: age-standardised prevalence rate; ASyr: age-standardised YLD rate; UI: uncertainty interval; YLDs: years lived with disability  
All rates are expressed per 100,000 population