**Table S1.** Regional distribution of the source of severe COVID-19 patients in Chongqing

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Districts of Chongqing** | **Population (thousand)** | **Confirmed****cases** | **Morbidity (‱)¶** | **Severe illness** | **Severity rate****(%)†** | **Population-wide severe illness rate(‱)‡** |
| **wanzhou** | 1564.4 | 175 | 1.12 | 3 | 1.71 | 0.019 |
| **qianjiang** | 487.3 | 57 | 1.17 | 0 | 0.00 | 0.000 |
| **fuling** | 1115.1 | 96 | 0.86 | 2 | 2.08 | 0.018 |
| **yuzhong** | 588.7 | 450 | 7.64 | 42 | 9.33 | 0.713 |
| **dadukou** | 421.9 | 204 | 4.84 | 2 | 0.98 | 0.047 |
| **jiangbei** | 925.8 | 347 | 3.75 | 7 | 2.02 | 0.076 |
| **shapingba** | 1097.1 | 695 | 6.33 | 24 | 3.45 | 0.219 |
| **jiulongpo** | 1907.0  | 1097 | 5.75 | 20 | 1.82 | 0.105 |
| **nanan** | 1197.6 | 914 | 7.63 | 13 | 1.42 | 0.109 |
|  |  |  |  |  |  |  |
| **yubei** | 2191.5 | 1341 | 6.12 | 13 | 0.97 | 0.059 |
| **banan** | 1178.9 | 484 | 4.11 | 8 | 1.65 | 0.068 |
| **changshou** | 693.0  | 72 | 1.04 | 0 | 0.00 | 0.000 |
| **jiangjing** | 1359.6 | 94 | 0.69 | 2 | 2.13 | 0.015 |
| **hechuan** | 1245.3 | 138 | 1.11 | 0 | 0.00 | 0.000 |
| **yongchuan** | 1148.9 | 138 | 1.20 | 4 | 2.9 | 0.035 |
| **nanchuan** | 572.4 | 32 | 0.56 | 0 | 0.00 | 0.000 |
| **qijiang** | 1011.3 | 163 | 1.61 | 7 | 4.29 | 0.069 |
| **dazu** | 834.6 | 141 | 1.69 | 6 | 4.26 | 0.072 |
| **bishan** | 756.0  | 40 | 0.53 | 3 | 7.5 | 0.04 |
| **tongliang** | 685.7 | 68 | 0.99 | 1 | 1.47 | 0.015 |
| **tongnan** | 688.1 | 51 | 0.74 | 5 | 9.8 | 0.073 |
| **rongchang** | 669.0  | 96 | 1.43 | 4 | 4.17 | 0.060 |
| **kaizhou** | 1203.3 | 161 | 1.34 | 5 | 3.11 | 0.042 |
| **liangping** | 645.3 | 241 | 3.73 | 3 | 1.24 | 0.046 |
| **wulong** | 356.7 | 96 | 2.69 | 0 | 0.00 | 0.000 |
| **chengkou** | 197.5 | 61 | 3.09 | 4 | 6.56 | 0.203 |
| **fengdu** | 557.4 | 34 | 0.61 | 0 | 0.00 | 0.000 |
| **dianjiang** | 650.7 | 358 | 5.50 | 4 | 1.12 | 0.061 |
| **zhongxian** | 721.0  | 27 | 0.37 | 0 | 0.00 | 0.000 |
| **yunyang** | 929.0  | 114 | 1.23 | 0 | 0.00 | 0.000 |
| **fengjie** | 744.8 | 182 | 2.44 | 0 | 0.00 | 0.000 |
| **wushan** | 462.5 | 61 | 1.32 | 0 | 0.00 | 0.000 |
| **wuxi** | 38.87 | 38 | 0.98 | 0 | 0.00 | 0.000 |
| **shizhu** | 38.90  | 11 | 0.28 | 0 | 0.00 | 0.000 |
| **xiushan** | 49.62 | 284 | 5.72 | 0 | 0.00 | 0.000 |
| **youyang** | 60.73 | 40 | 0.66 | 0 | 0.00 | 0.000 |
| **pengshui** | 53.06 | 95 | 1.79 | 1 | 1.05 | 0.019 |
| **Total** | **3205.4** | **9093** | **2.84** | **189** | **2.07** | **0.059** |

¶: Morbidity rate(‱) = Confirmed/Population\*100%

†: Severity rate(%) = Severe illness/Confirmed\*100%

‡: Population-wide serious illness rate(‱) =Severe illness/Population\*100%