**Supplementary Table 1. Crude mortality rate and ASMRC of liver cancer by province in 2020 in China.**

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| **Location** | **Crude mortality****(per 100,000 people)** | **ASMRC****(per 100,000 people)** |
| Bejing | 11.11 | 8.63 |
| Tianjin | 12.93 | 8.79 |
| Hebei | 19.20 | 14.70 |
| Shanxi | 18.20 | 14.83 |
| Neimenggu | 22.86 | 18.88 |
| Liaoning | 32.39 | 19.63 |
| Jilin | 35.96 | 24.70 |
| Heilongjiang | 36.27 | 24.95 |
| Shanghai | 13.68 | 8.56 |
| Jiangsu | 23.08 | 16.09 |
| Zhejiang | 24.13 | 17.34 |
| Anhui | 26.25 | 20.33 |
| Fujian | 26.53 | 23.90 |
| Jiangxi | 26.54 | 22.90 |
| Shandong | 25.81 | 17.75 |
| Henan | 32.75 | 28.19 |
| Hubei | 29.23 | 21.38 |
| Hunan | 26.42 | 20.62 |
| Guangdong | 23.16 | 22.25 |
| Guangxi | 42.69 | 41.08 |
| Hainan | 23.57 | 21.92 |
| Chongqing | 35.40 | 24.98 |
| Sichuan | 33.78 | 23.56 |
| Guizhou | 20.26 | 19.07 |
| Yunnan | 18.63 | 17.31 |
| Xizang | 18.61 | 25.33 |
| Shaanxi | 23.02 | 18.19 |
| Gansu | 20.95 | 17.59 |
| Qinghai | 20.64 | 20.02 |
| Ningxia | 19.89 | 19.80 |
| Xinjiang | 10.80 | 11.99 |

ASMRC, age-standardized mortality rate adjusted by the Chinese standard population