

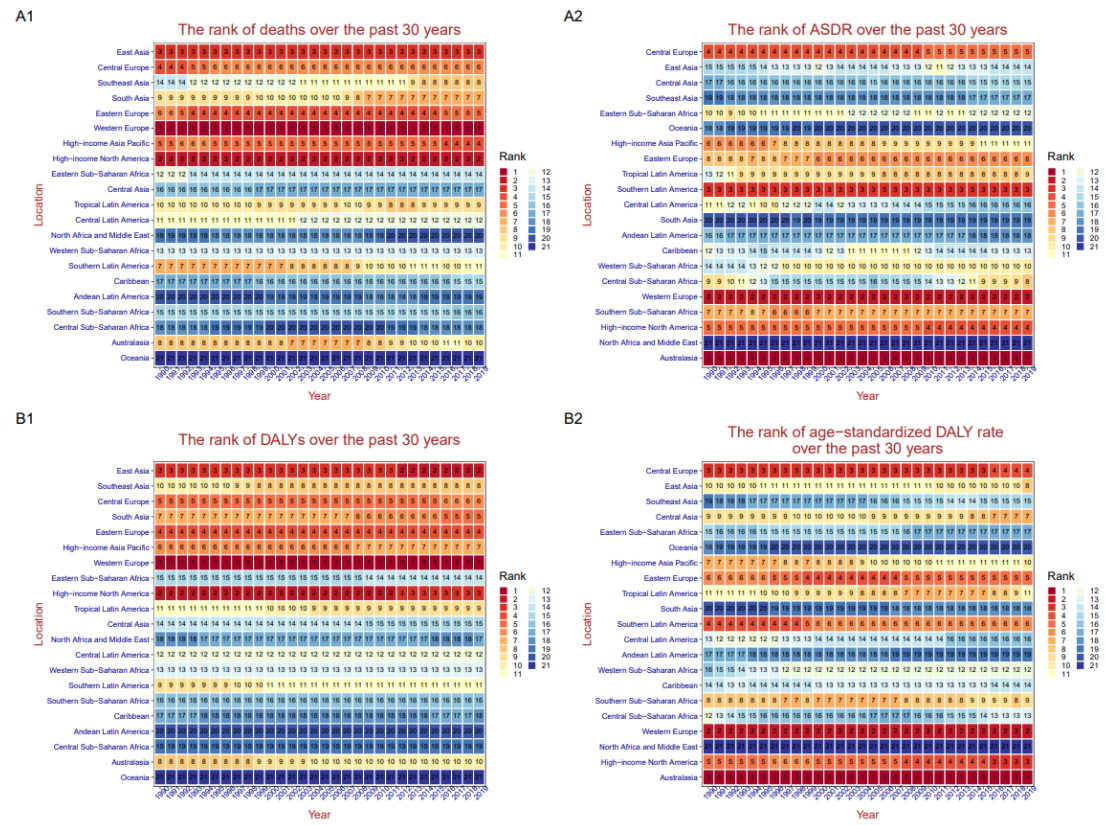


Figure S1 The rank of ASR burden for AF attributable to alcohol use over the past 30 years. A1: Deaths number in AF ; A2: ASDR in AF; B1: DALYs number in AF; B2: Age-standardized DALY rate in AF. ASR: age-standardized rate; ASDR: age-standardized death rate. DALY:disability adjusted life year.

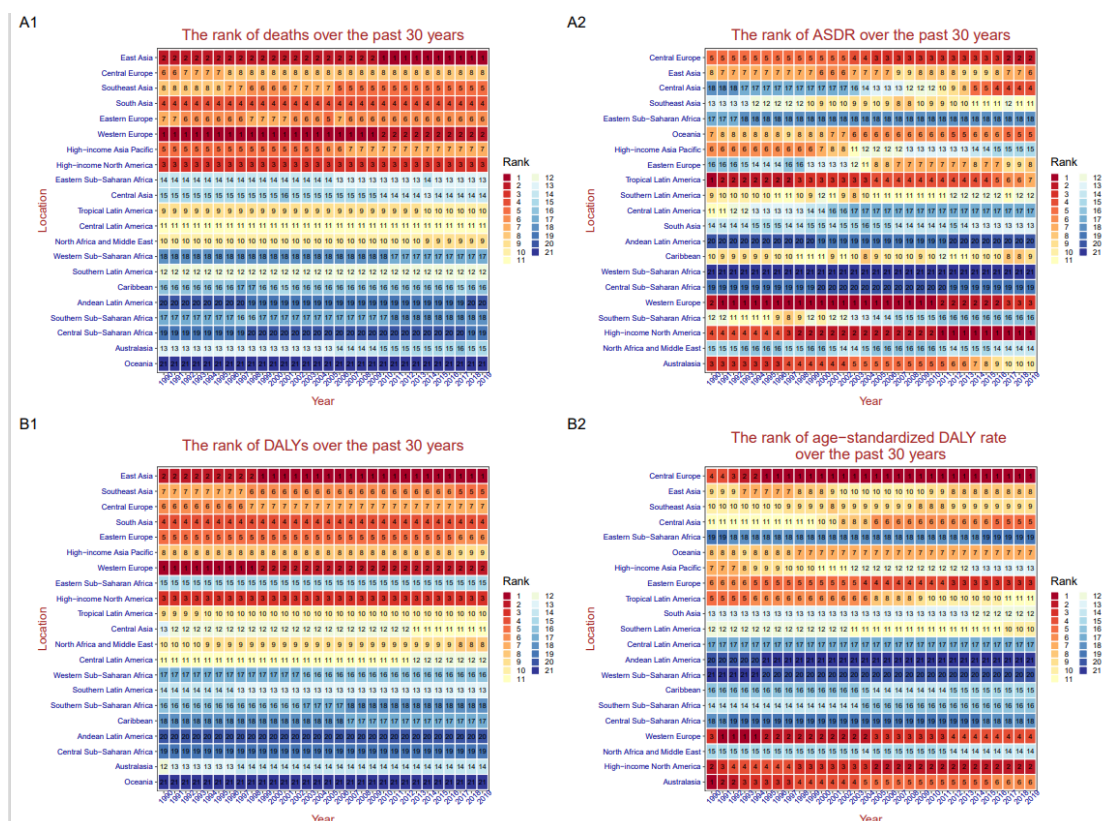


Figure S2 The rank of ASR burden for AF attributable to smoking over the past 30 years. A1: Deaths number in AF ; A2: ASDR in AF; B1: DALYs number in AF; B2: Age-standardized DALY rate in AF.

ASR: age-standardized rate; ASDR: age-standardized death rate. DALY:disability adjusted life year.

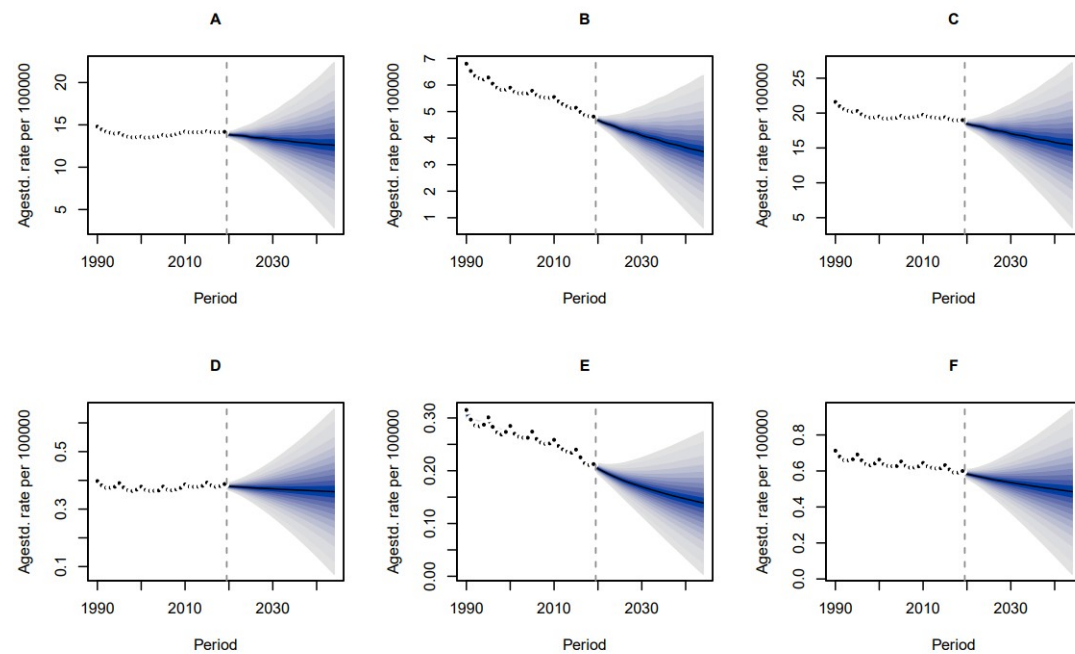


Figure S3 The predicted trend of age-standardized death rate of AF attributable to alcohol use and smoking by sex until 2044. **A:** male's age-standardized death rate of AF attributable to alcohol use; **B:** female's age-standardized death rate of AF attributable to alcohol use; **C:** both sex's age-standardized death rate of AF attributable to alcohol use; **D:** male's age-standardized death rate of AF attributable to alcohol use; **E:** female's age-standardized death rate of AF attributable to alcohol use; **F:** both sex's age-standardized death rate of liver cancer attributable to alcohol use

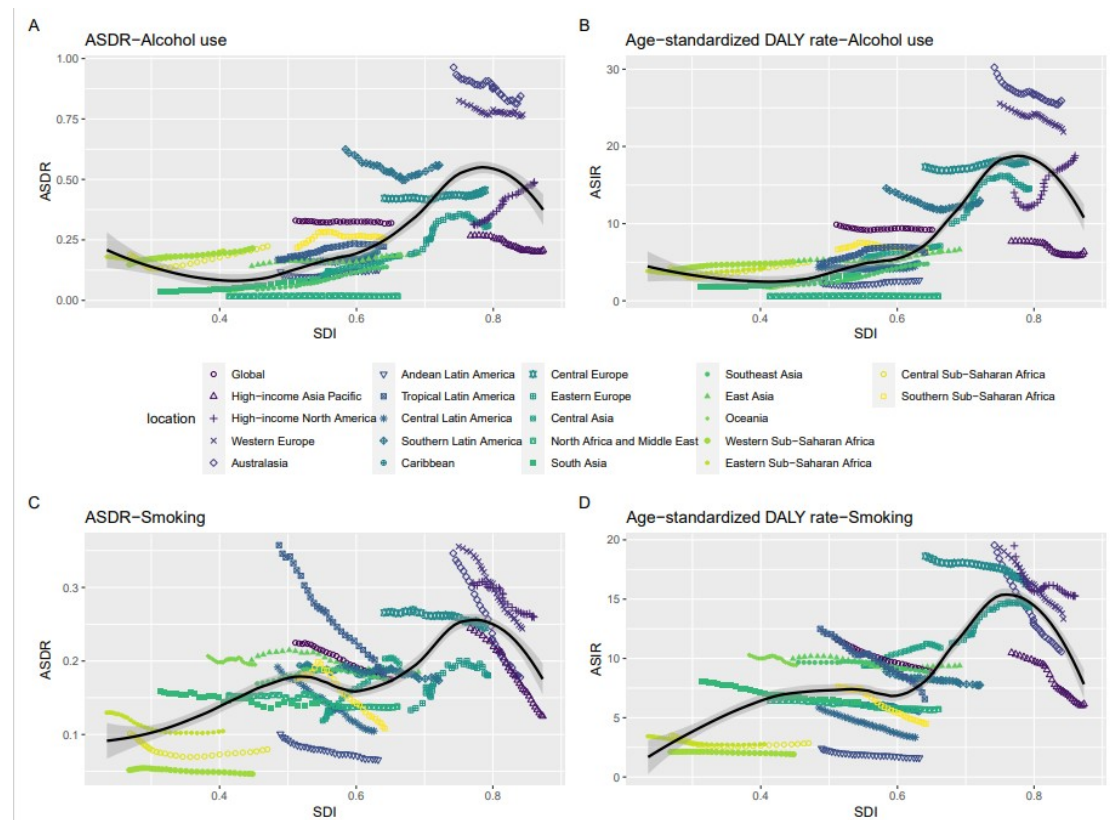


Figure S4 The trend of AF burden attributable to alcohol use and smoking cross 21 GBD regions, 1990-2019. **A:** The trend of ASDR of AF attributable to alcohol use; **B:** The trend of age-standardized DALY rate in AF attributable to alcohol use; **C:** The trend of ASDR of AF attributable to smoking; **D:** The trend of age-standardized DALY rate in AF attributable to smoking. For each region, points from left to right depict estimates from each year from 1990 to 2019.

GBD: Global Burden of Diseases, Injuries, and Risk Factors Study; ASDR: age-standardized death rate.