

Online Supplementary Document

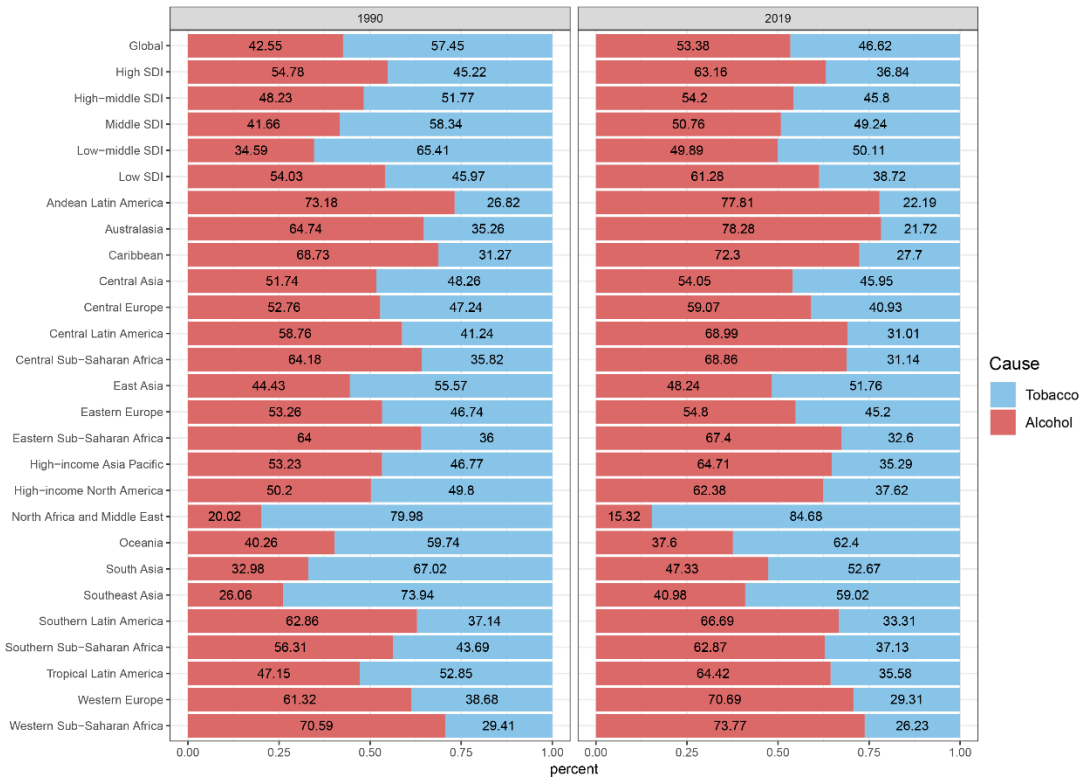


Figure S1 Composition chart of TB deaths related with alcohol and tobacco in 1990 and 2019.

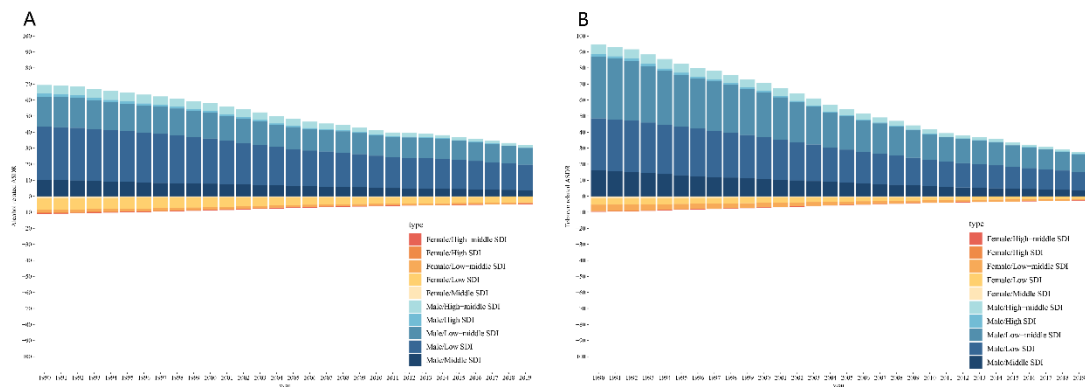


Figure S2 A: Alcohol-related ASDR distribution in different SDI area and gender; **B:** Tobacco-related ASDR distribution in different SDI area and gender.

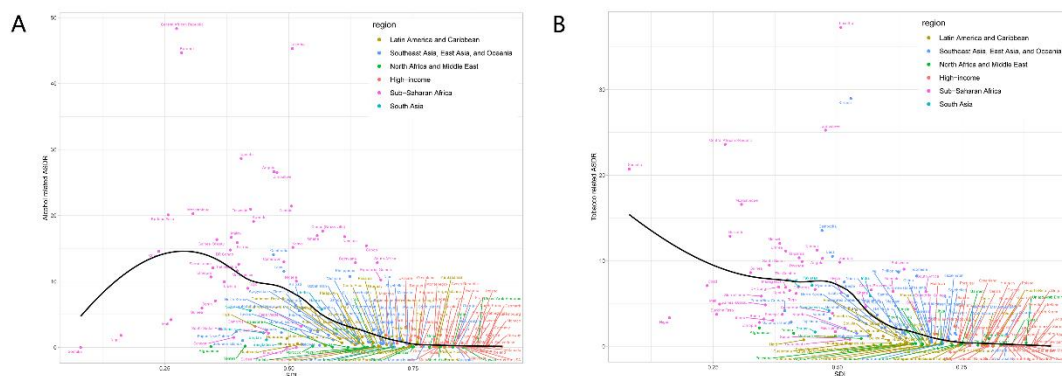


Figure S3 A: Alcohol-related correlation between SDI and ASDR in country level; **B:** Tobacco-related correlation between SDI and ASDR in country level.

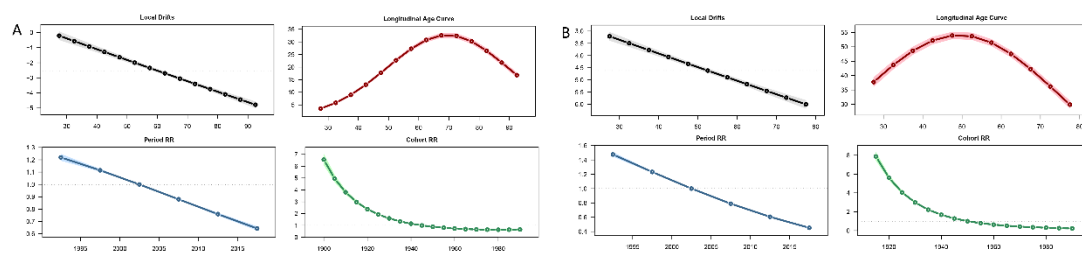


Figure S4 A: Alcohol-related ASDR APC model; **B:** Tobacco-related ASDR APC model.

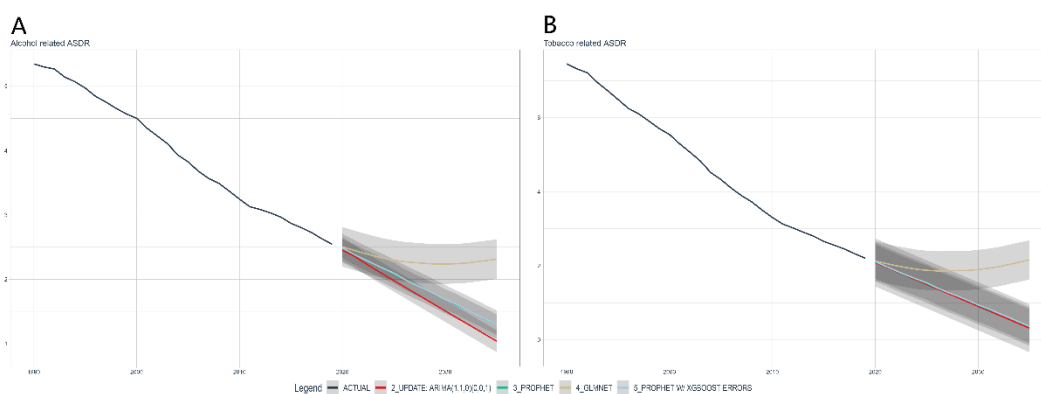


Figure S5 A: Machine learning prediction in alcohol related ASDR; **B:** Machine learning prediction in tobacco related YLLs.