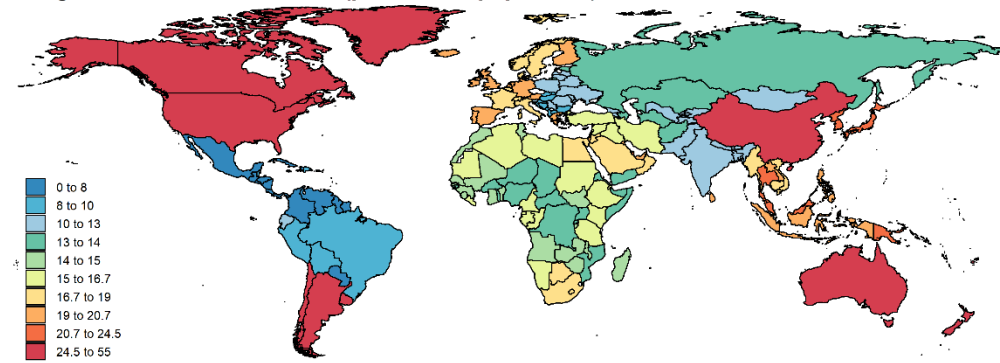


A Age-standardized DALY rate (per 100,000 population)



B Estimated annual percentage change

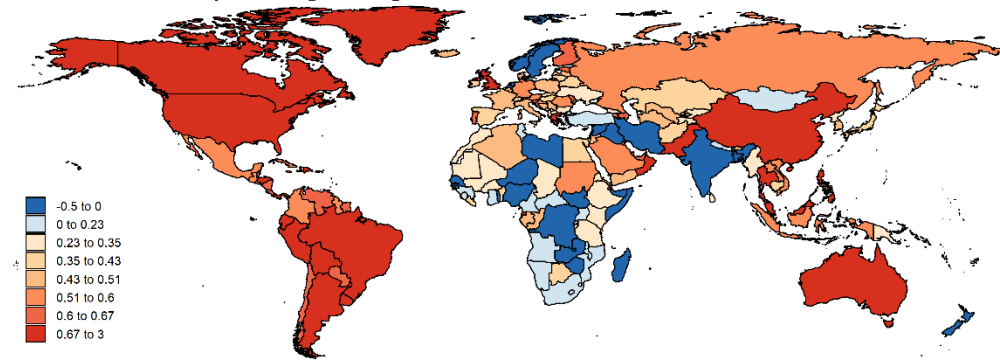


Figure S1: Gout-related DALYs (A) and its EAPC (B) for both sex in 2019. **EAPC:** estimate annual percentage change. **DALY:** disability-adjusted life years.

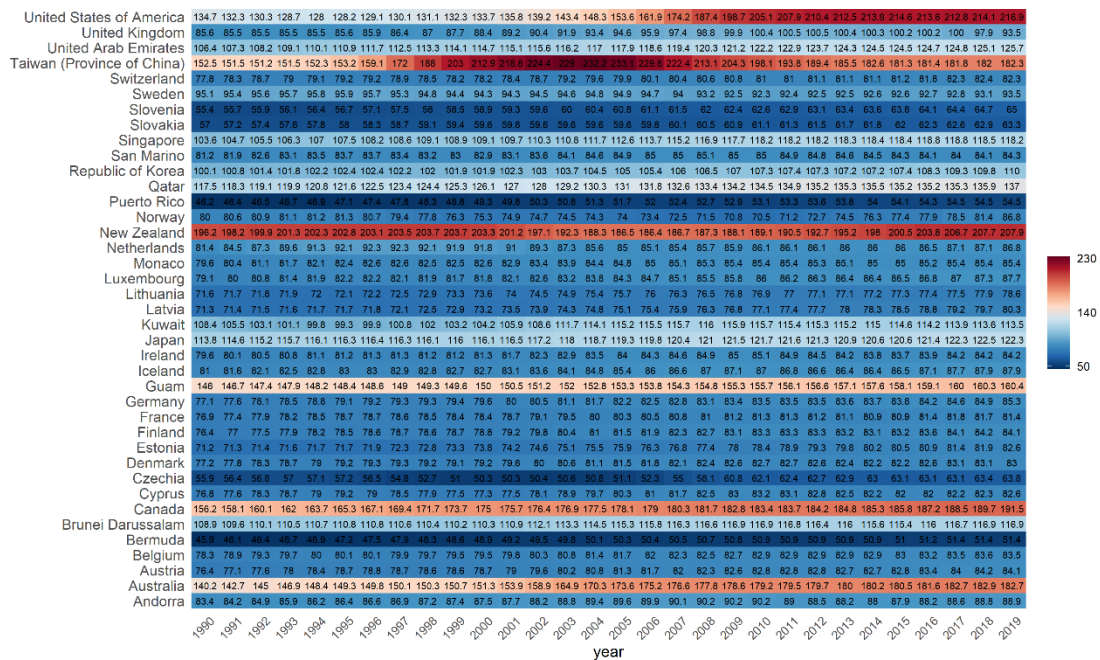


Figure S2: Heatmap showing temporal change in ASIRs of gout between 1990 and 2019 in high SDI countries. **ASIRs:** age-standardized incidence rates.

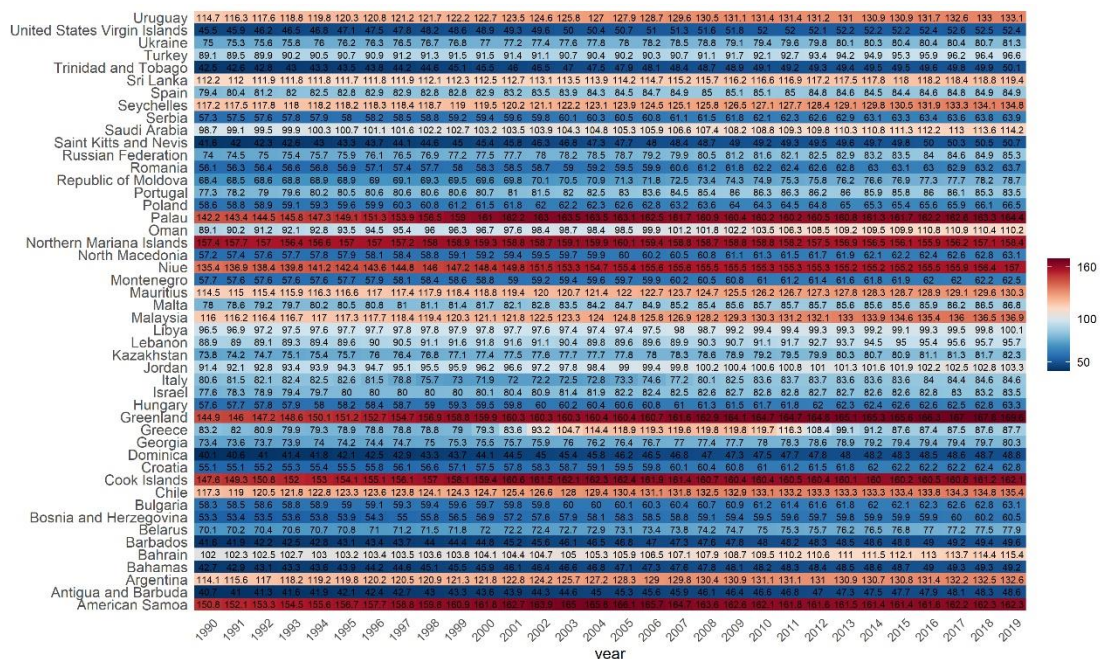


Figure S3: Heatmap showing temporal change in ASIRs of gout between 1990 and 2019 in high-middle SDI countries. **ASIRs:** age-standardized incidence rates.

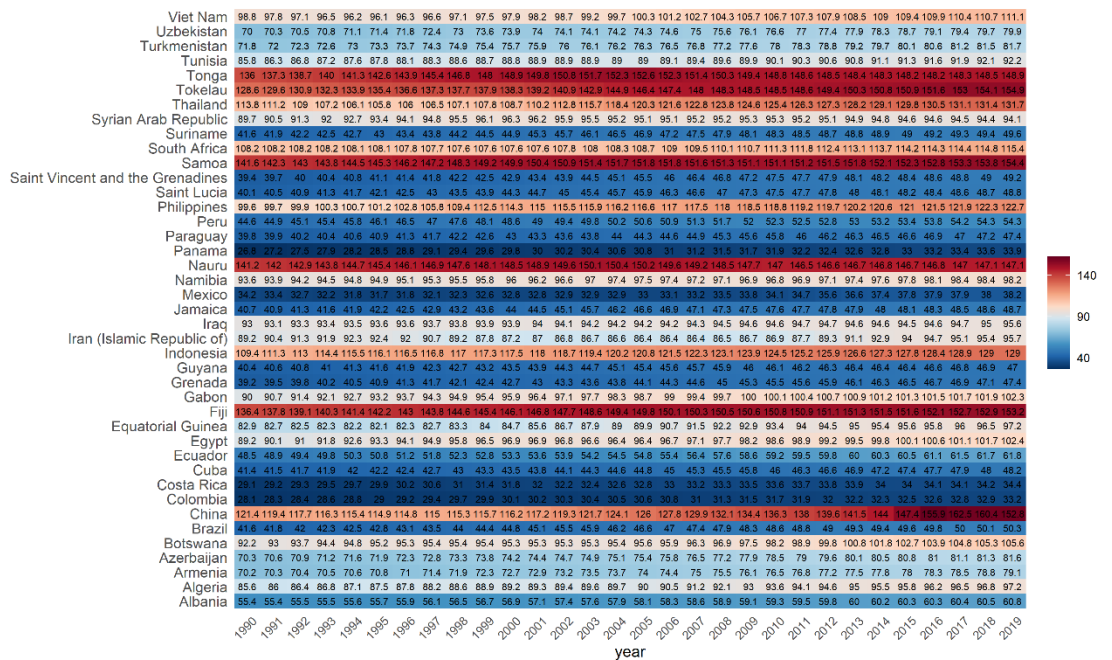


Figure S4: Heatmap showing temporal change in ASIRs of gout between 1990 and 2019 in middle SDI countries. **ASIRs:** age-standardized incidence rates.

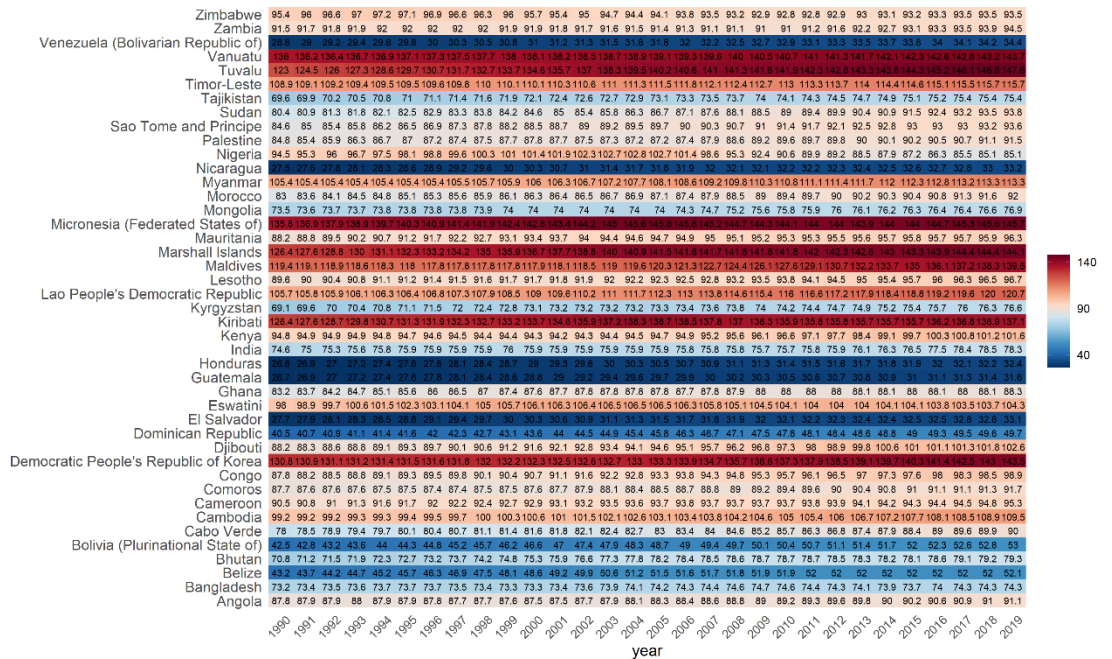


Figure S5: Heatmap showing temporal change in ASIRs of gout between 1990 and 2019 in low-middle SDI countries. **ASIRs:** age-standardized incidence rates.

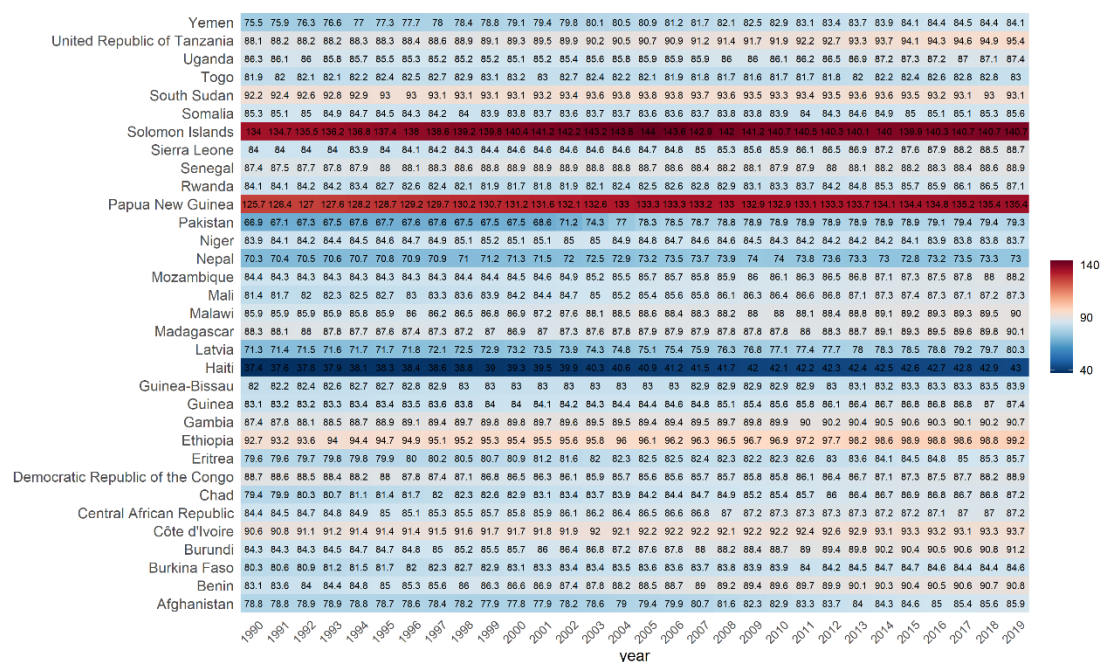


Figure S6: Heatmap showing temporal change in ASIRs of gout between 1990 and 2019 in low SDI countries. **ASIRs:** age-standardized incidence rates.

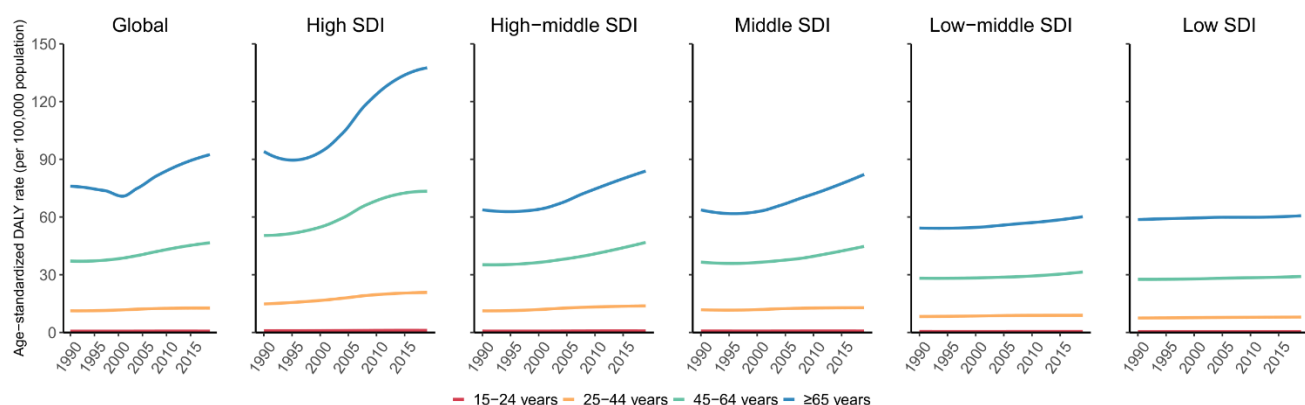


Figure S7: Global and SDI regions gout-related age-standardized DALY rates by age, from 1990 to 2019. **DALY:** disability-adjusted life years.

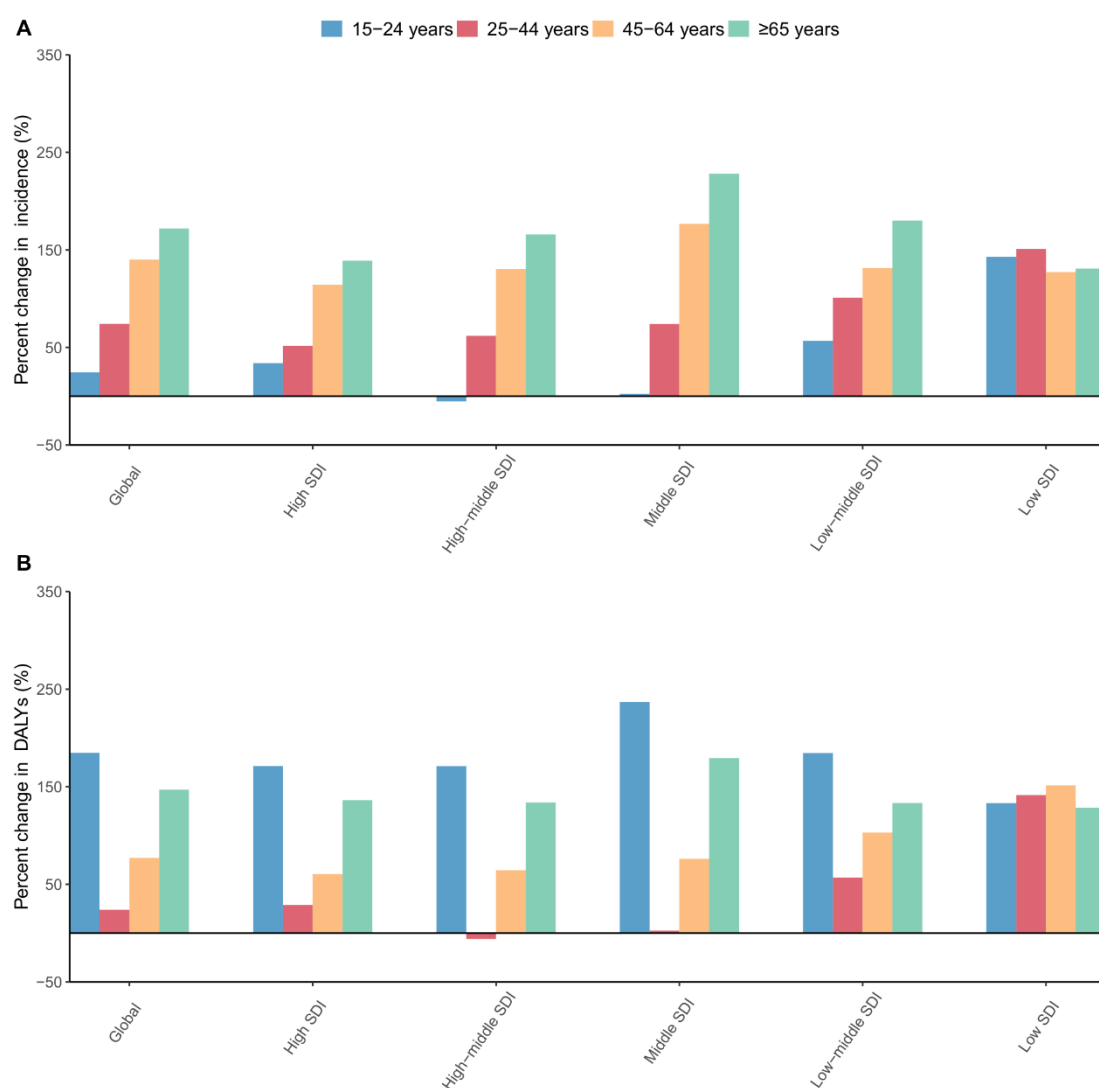


Figure S8: A: The percent changes in incidence cases in four age groups (15–24 years, 25–44 years, 45–64 years, and ≥65 years) between 1990 and 2019 globally and in global and SDI regions.; **B:** The percent changes in DALYs in four age groups (15–24 years, 25–44 years, 45–64 years, and ≥65 years) between 1990 and 2019 globally and in global and SDI regions. **DALY:** disability-adjusted life years.

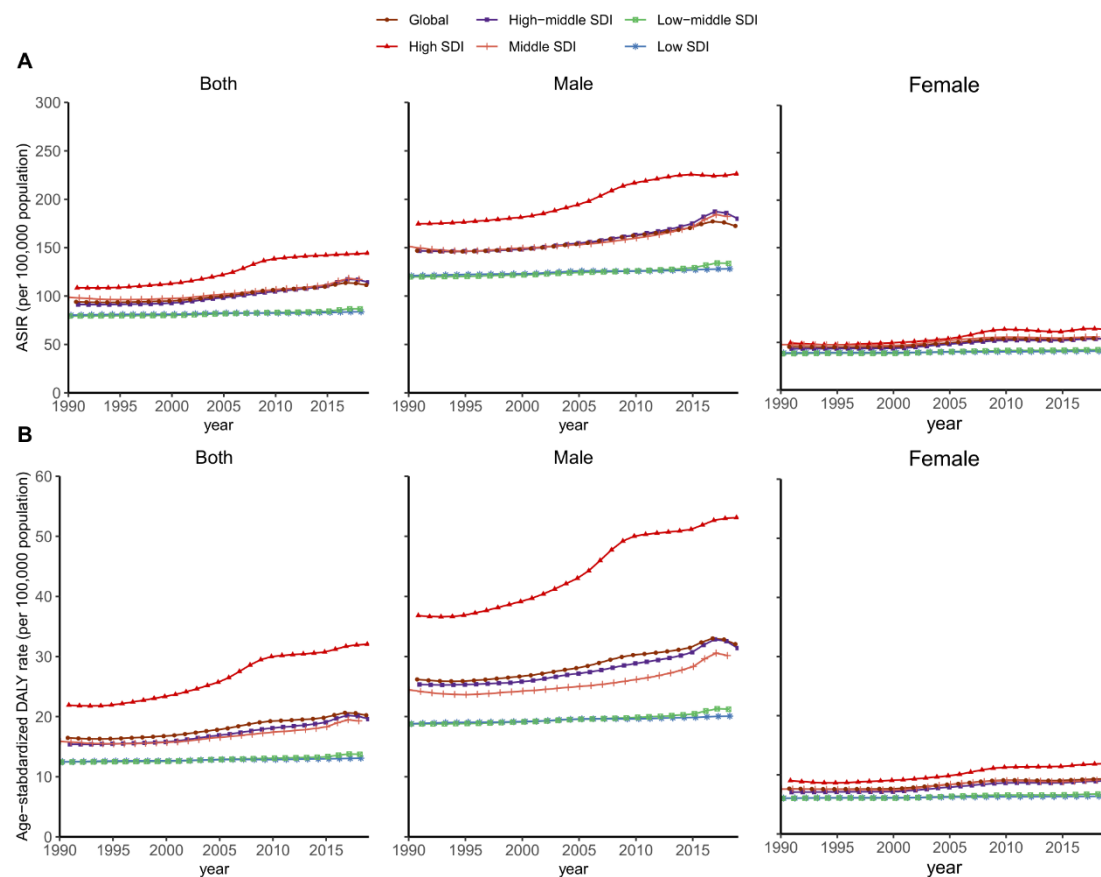


Figure S9: A: The ASIRs in global and SDI regions by sex from 1990 to 2019; **B:** The age-standardized DALY rates in global and SDI regions by sex from 1990 to 2019. **DALY:** disability-adjusted life years.

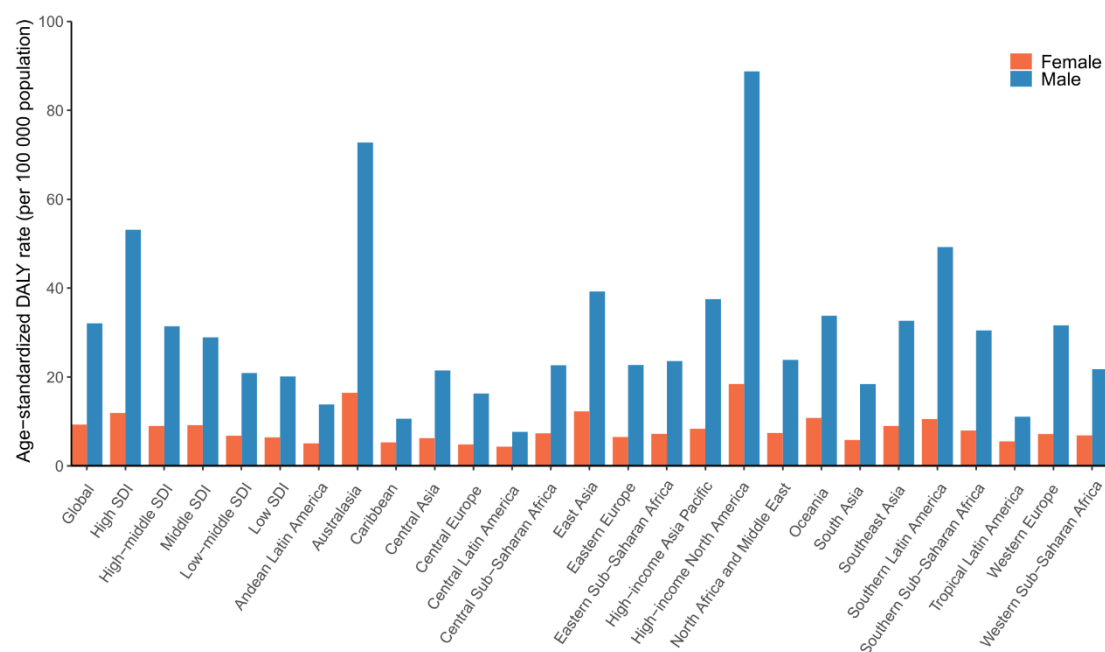


Figure S10: Gout-related age-standardized DALY rates for global, SDI and 21 GBD regions, by sex. **DALY:** disability-adjusted life years.

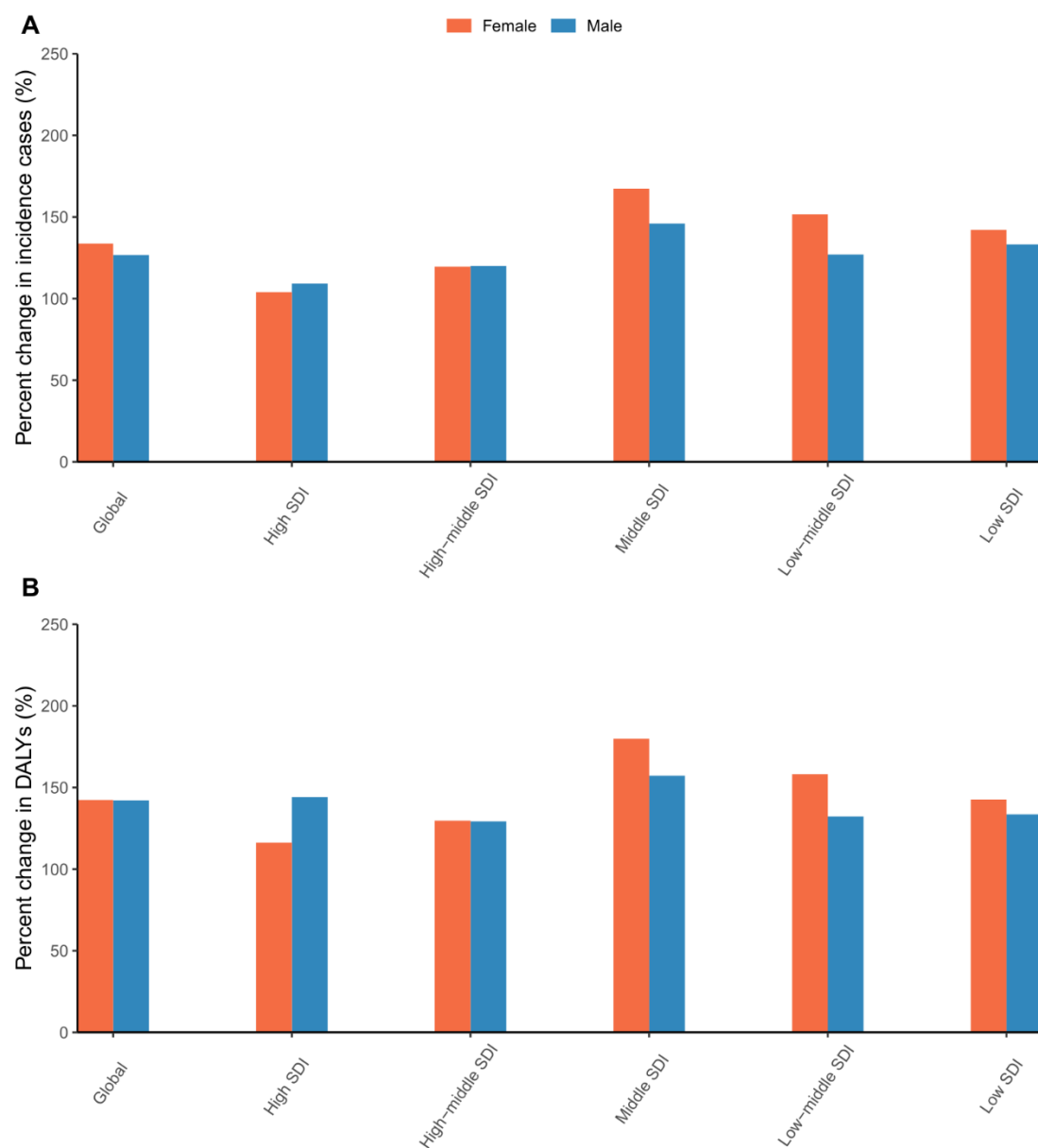


Figure S11: A: The percent changes in incidence cases in males and females between 1990 and 2019; **B:** The percent changes in DALYs in males and females between 1990 and 2019. **DALY:** disability-adjusted life years.

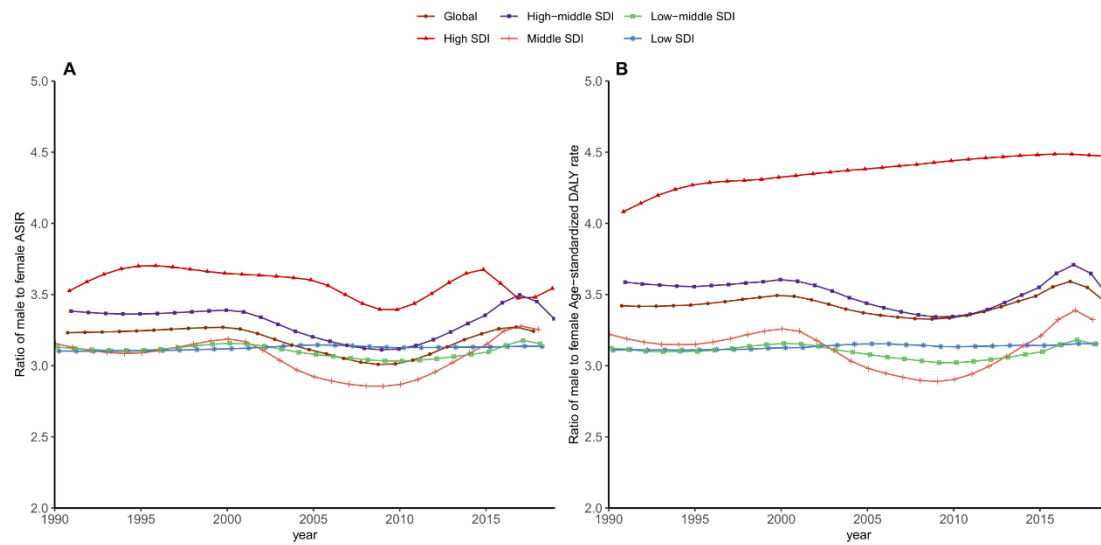


Figure S12: A: Male to female ratios of ASIRs in global and SDI regions from 1990 to 2019. **ASIRs:** age-standardized incidence rates; **B:** Male to female ratios of age-standardized DALY rates in global and SDI regions from 1990 to 2019. **DALY:** disability-adjusted life years.

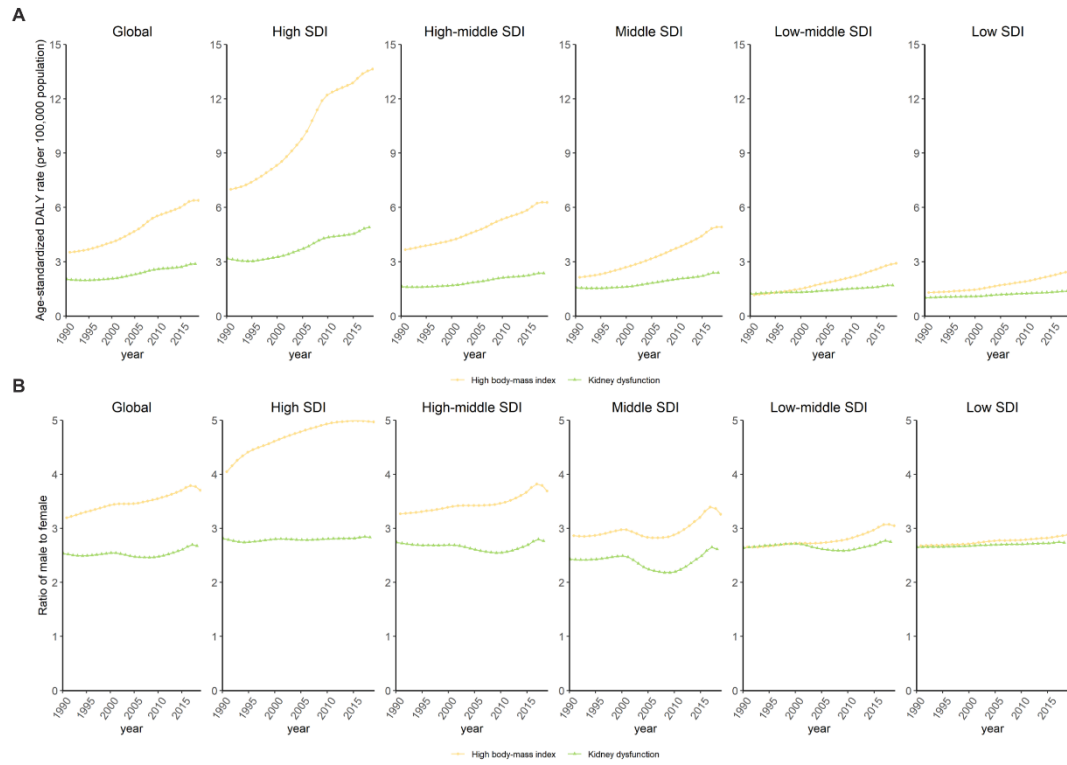


Figure S13: A: The age-standardized DALY rates attributable to main risk factors by SDI region from 1990 to 2019. **DALY:** disability-adjusted life years; **B:** Male to female ratios of age-standardized DALY rates attributable to main risk factors from 1990 to 2019.

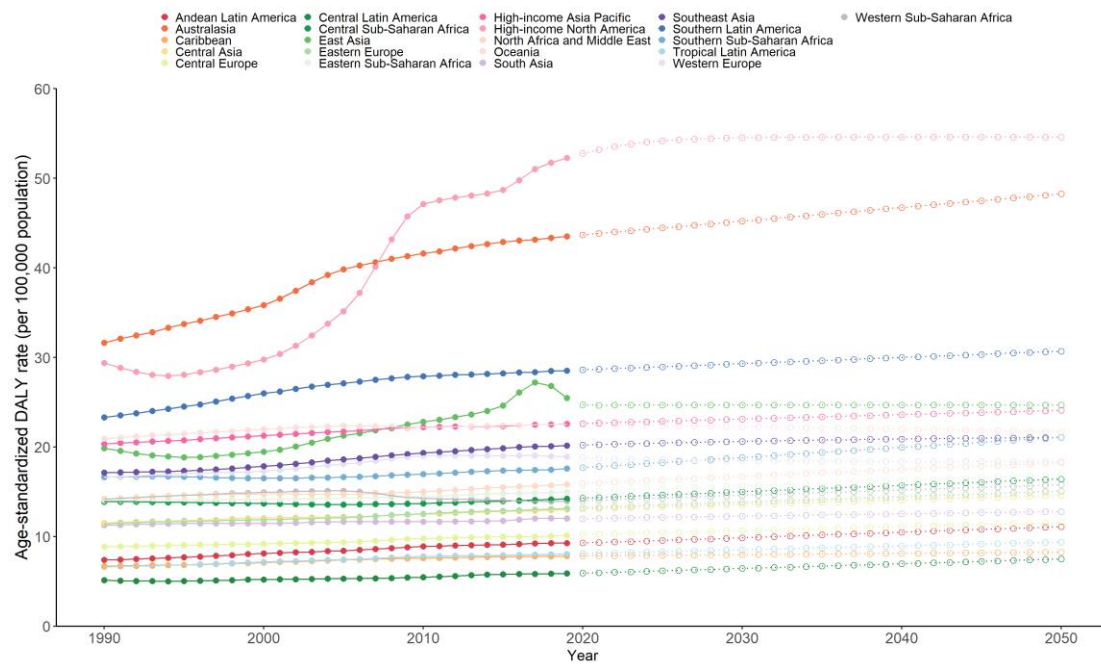


Figure S14: Trends in observed (*solid lines*) and predicted (*dashed lines*) age-standardized DALY rates of gout in 21 GBD regions.