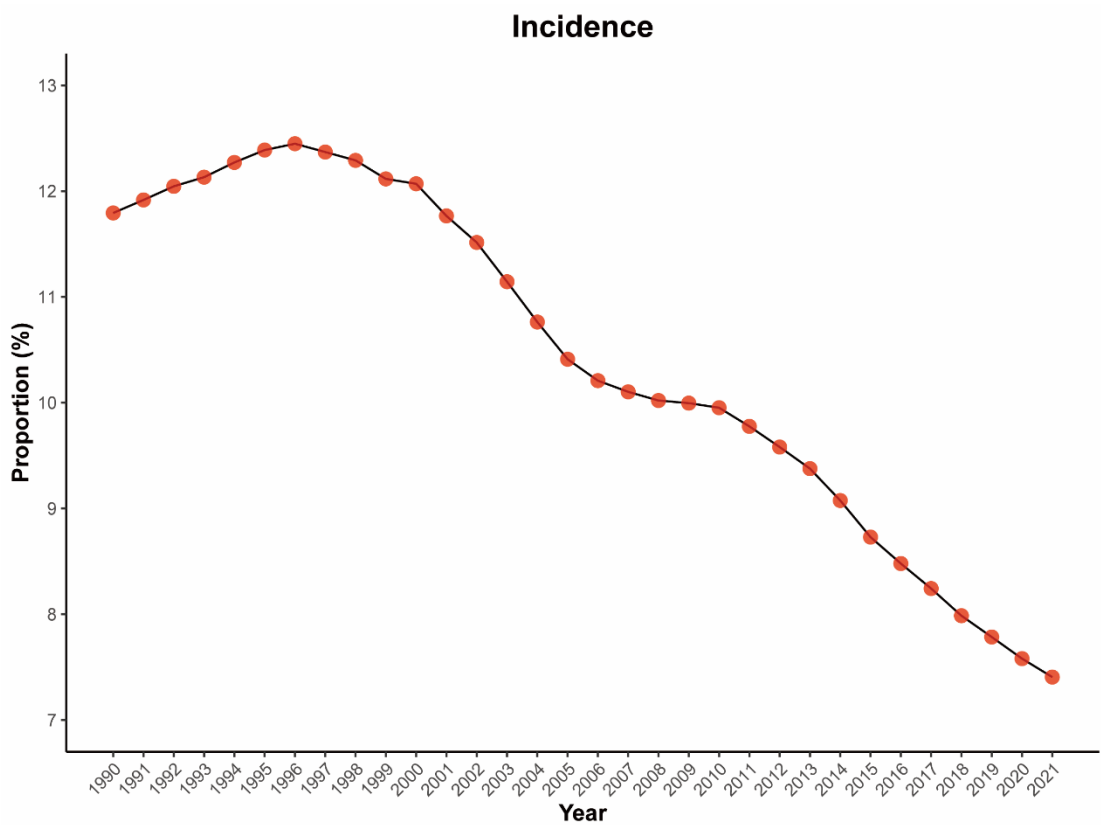
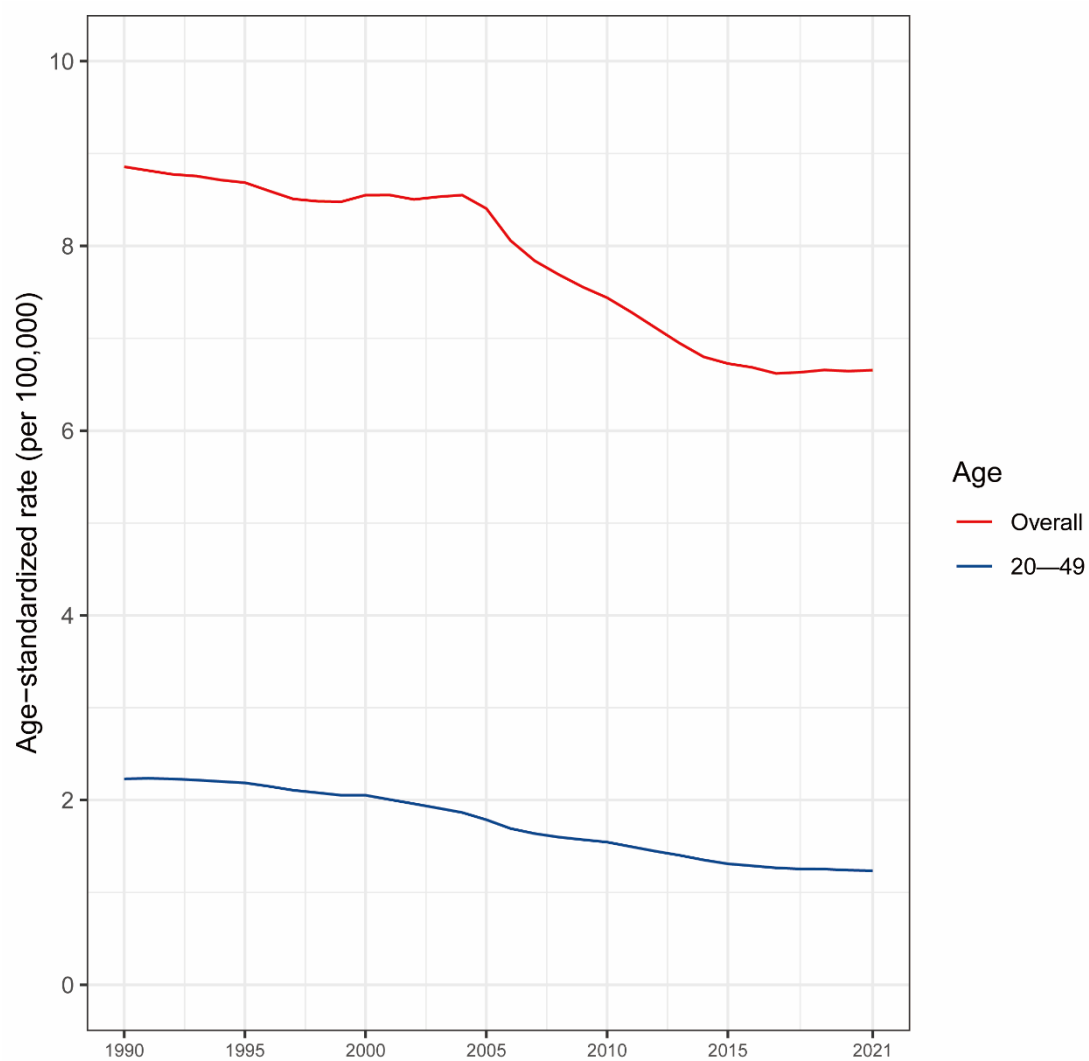


Supplementary Figures

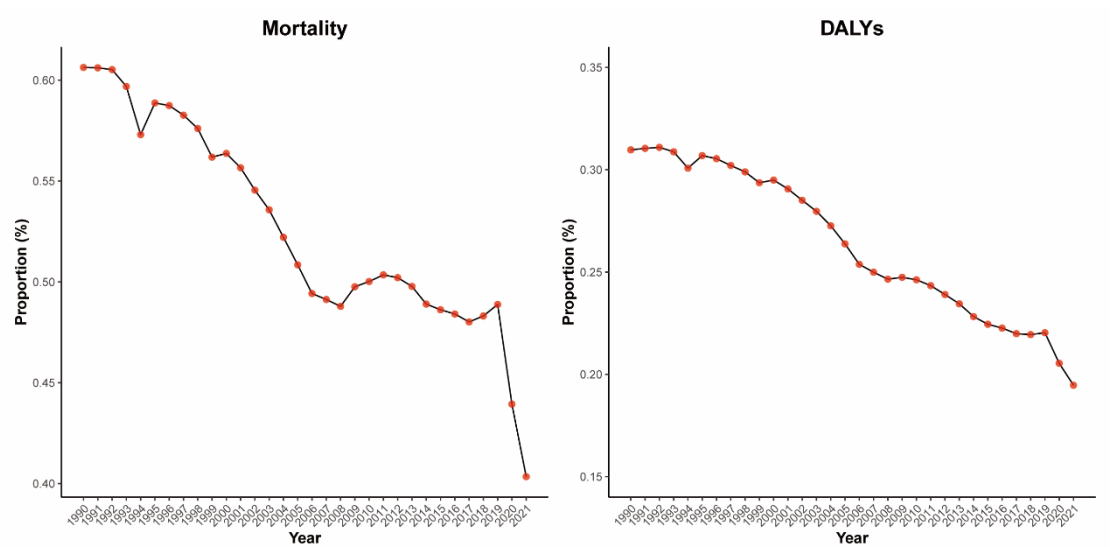
Supplementary Figure 1. Proportion of early-onset esophageal cancer cases relative to the total esophageal cancer population from 1990 to 2021.



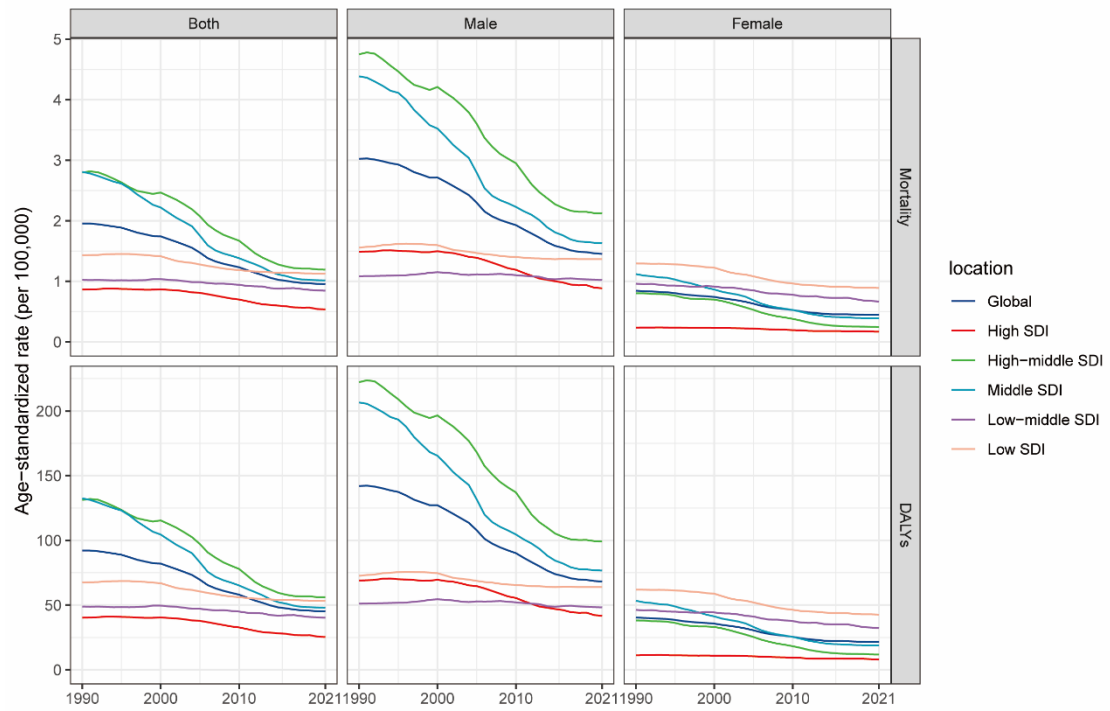
Supplementary Figure 2. Temporal trends in age-standardized incidence rates for early-onset esophageal cancer compared to the overall esophageal cancer population from 1990 to 2021.



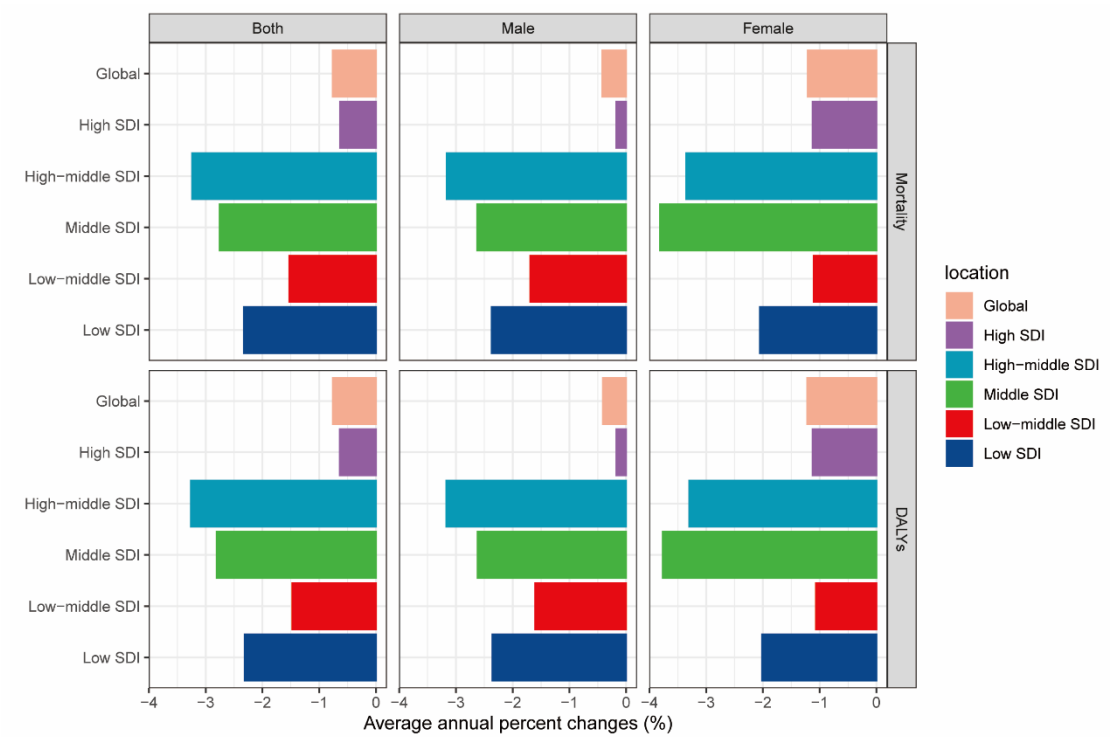
Supplementary Figure 3. Proportion of age-standardized mortality and disability-adjusted life years (DALYs) from esophageal cancer among patients aged 20-49 years, relative to all-cause mortality, from 1990 to 2021.



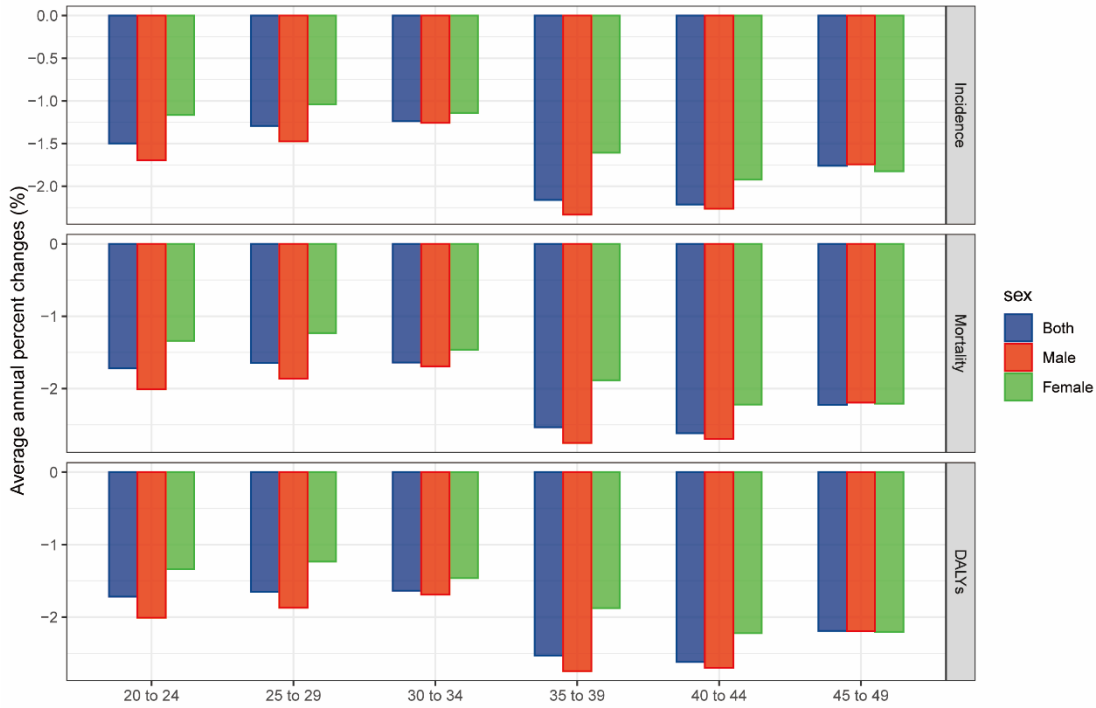
Supplementary Figure 4. Trends in age-standardized mortality and DALYs for early-onset esophageal cancer by sex, from 1990 to 2021, at the global level and across socio-demographic index (SDI) categories.



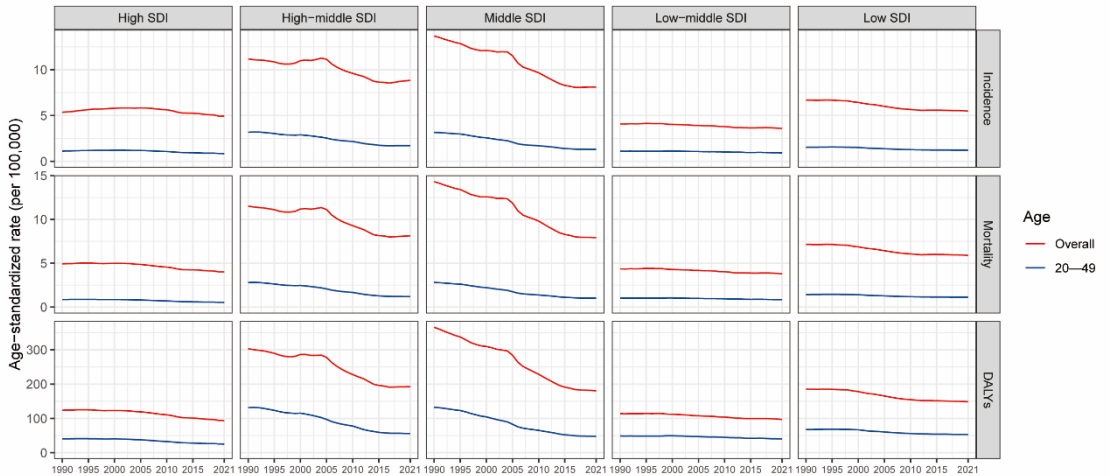
Supplementary Figure 5. Average annual percent changes in age-standardized mortality and DALYs for early-onset esophageal cancer patients from 1990 to 2021, stratified by sex and SDI levels.



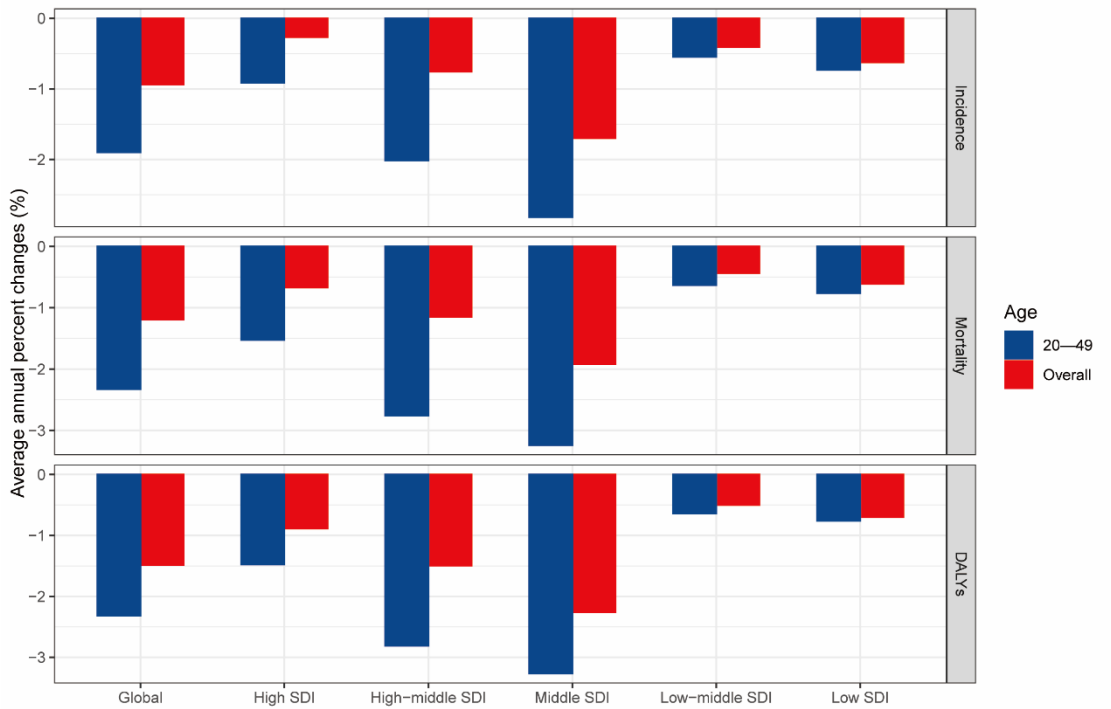
Supplementary Figure 6. Average annual percent changes in age-standardized incidence, mortality, and DALYs for early-onset esophageal cancer patients from 1990 to 2021, by sex and age group.



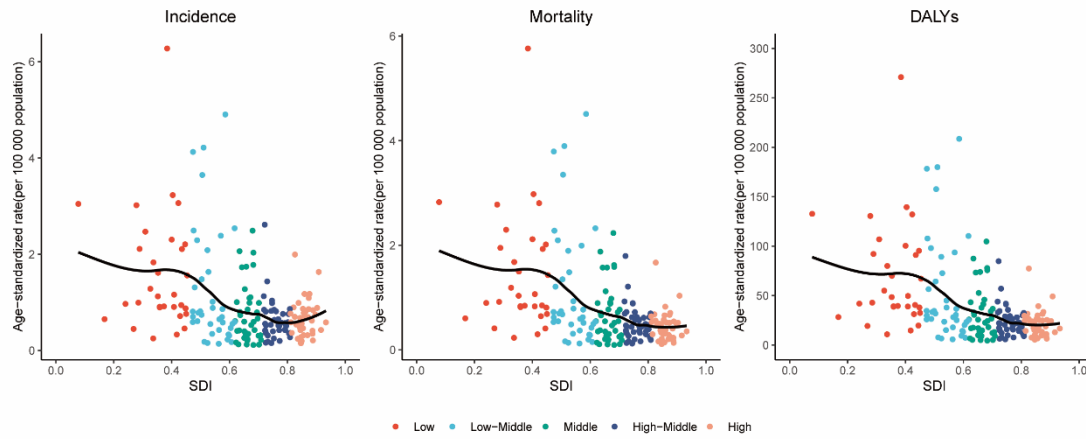
Supplementary Figure 7. Temporal trends in age-standardized incidence, mortality, and DALYs for early-onset and overall esophageal cancer patients from 1990 to 2021, at the global level and across SDI levels.



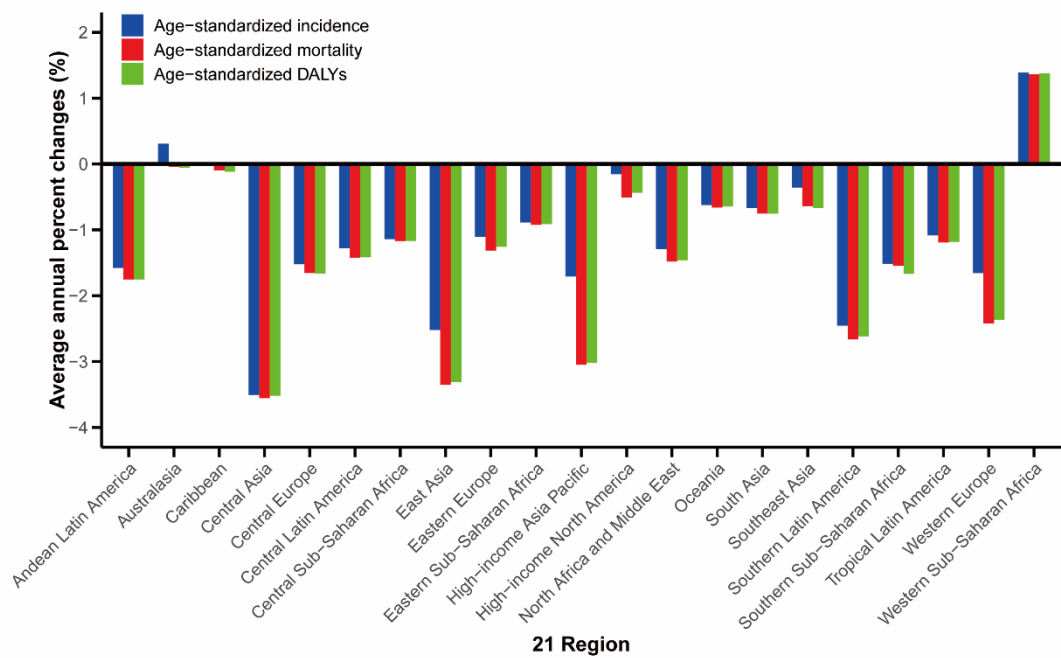
Supplementary Figure 8. Average annual percent changes in age-standardized incidence, mortality, and DALYs for early-onset and overall esophageal cancer patients from 1990 to 2021, at the global level and across SDI levels.



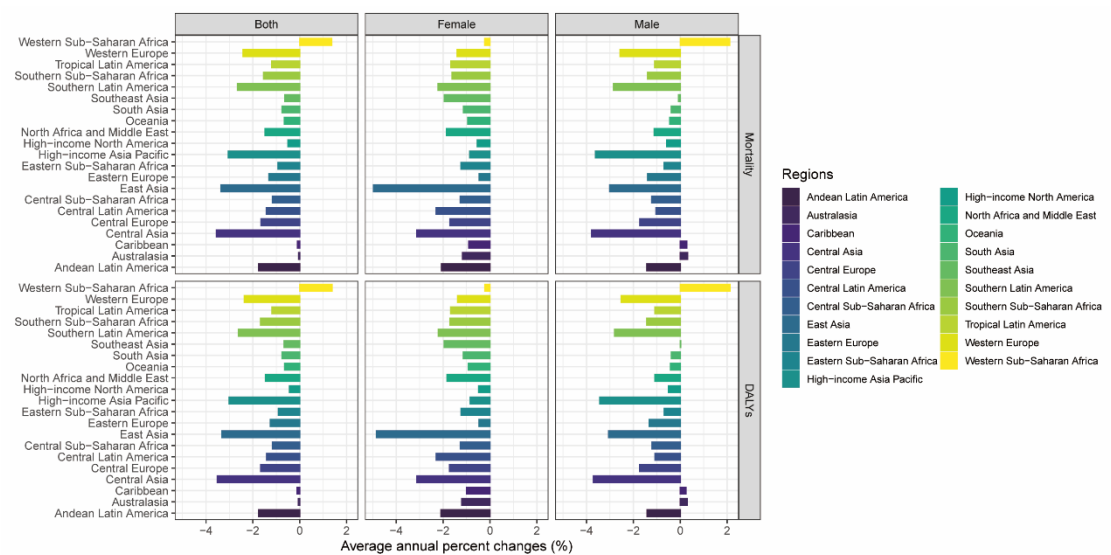
Supplementary Figure 9. Incidence, mortality, and DALYs rates among early-onset esophageal cancer patients across 204 countries, categorized by SDI in 2021.



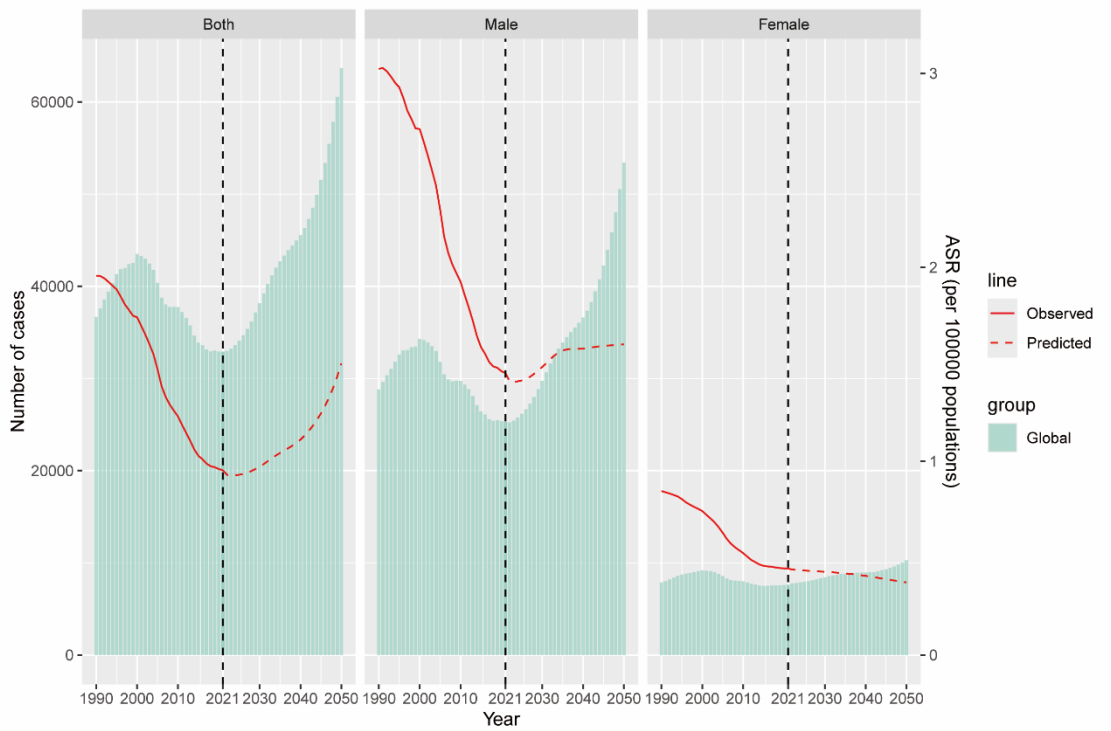
Supplementary Figure 10. Average annual percent changes in age-standardized incidence, mortality, and DALYs for early-onset esophageal cancer from 1990 to 2021, at the regional level.



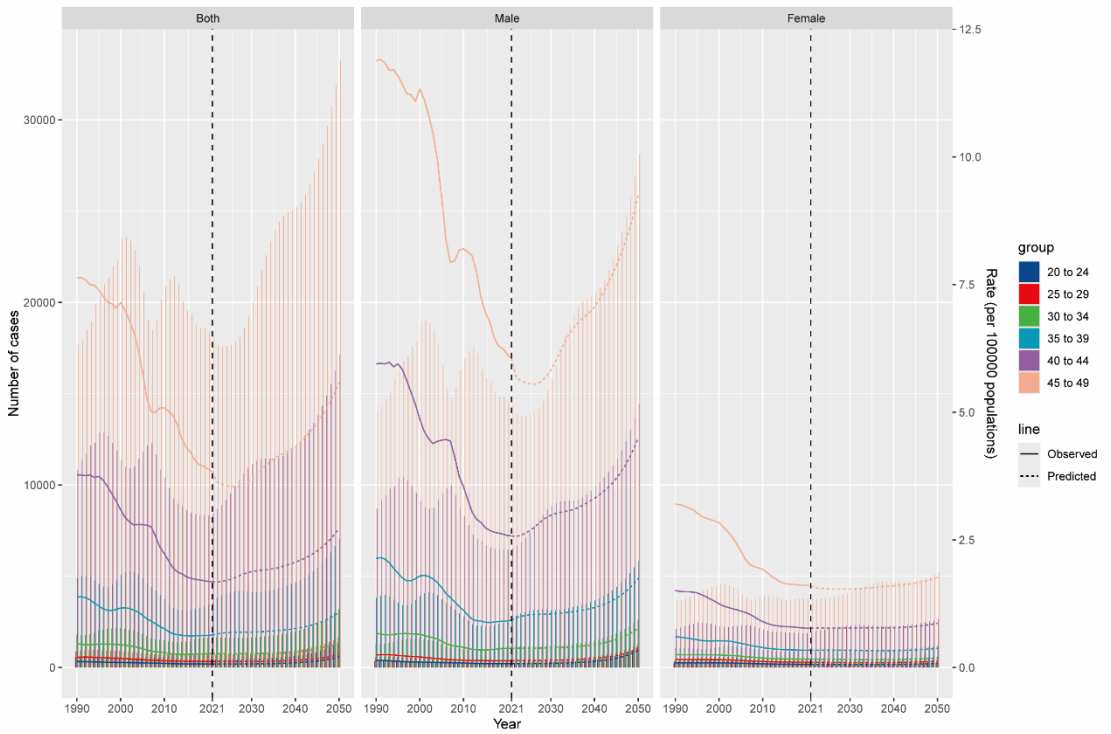
Supplementary Figure 11. Average annual percent changes in age-standardized mortality and DALYs for early-onset esophageal cancer patients from 1990 to 2019, at the regional level, stratified by sex.



Supplementary Figure 12. Projected future incidence rates for early-onset esophageal cancer, by sex.



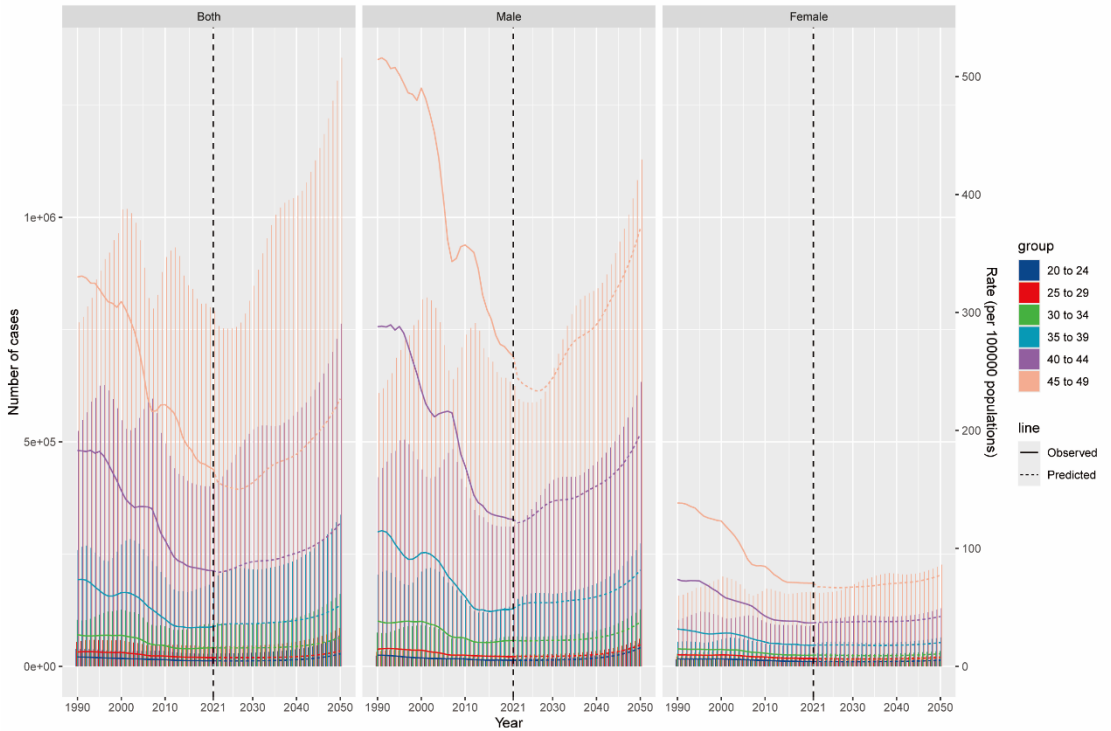
Supplementary Figure 13. Projected future incidence rates for early-onset esophageal cancer, by age group.



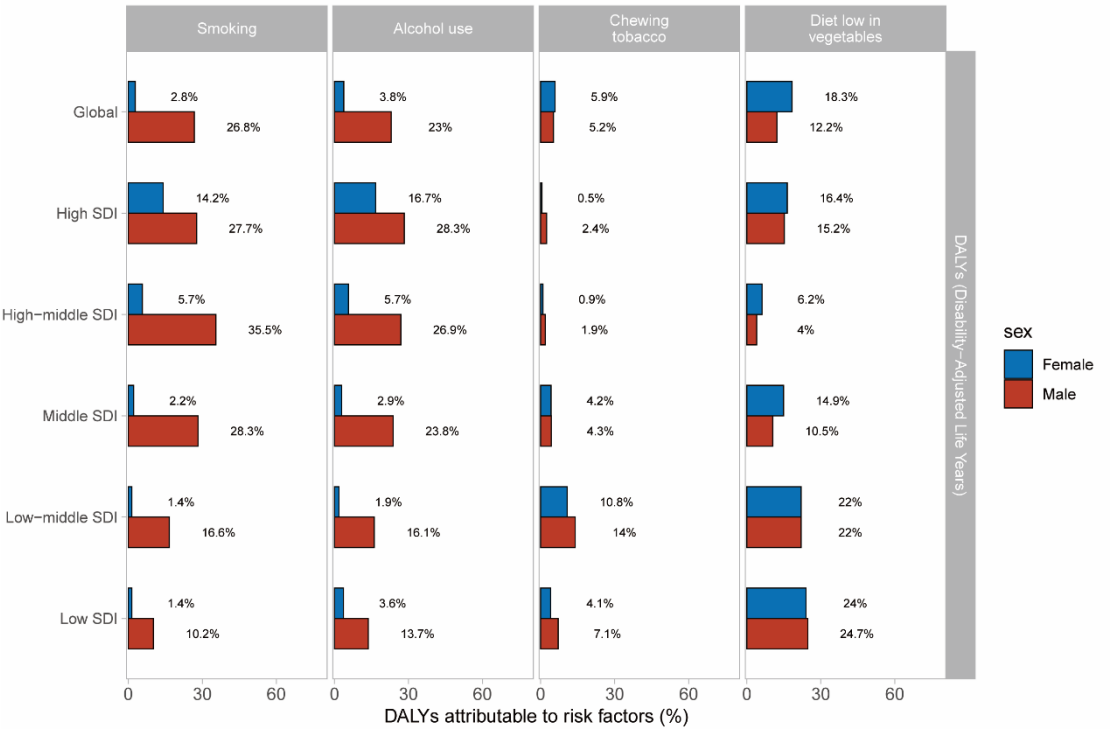
Supplementary Figure 14. Projected future mortality rates for early-onset esophageal cancer, by sex.



Supplementary Figure 15. Projected future mortality rates for early-onset esophageal cancer, by age group.



Supplementary Figure 16. Global percentage of disability-adjusted life years attributable to risk factors for early-onset esophageal cancer in males and females, stratified by SDI level, in 2021.



Supplementary Figure 17. Percentage of disability-adjusted life years attributable to risk factors for early-onset esophageal cancer, by age group, in males and females in 2021.

