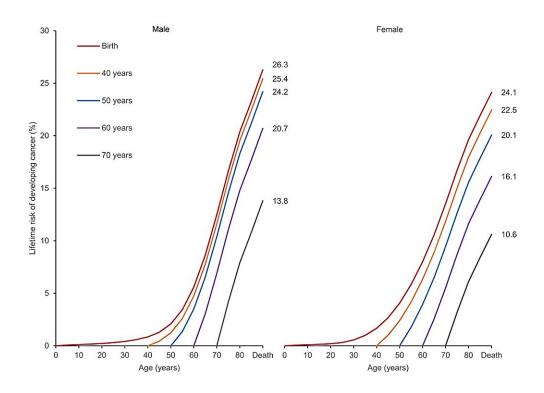


## Study estimates global, regional and national lifetime probabilities of developing cancer in 2020

## November 7 2023



Global lifetime risks of developing cancer by age at diagnosis in 2020. Credit: *Science Bulletin* (2023). DOI: 10.1016/j.scib.2023.09.041

The lifetime risk of cancer is a measure of the cumulative impact of



cancer across a defined age span, and has obvious intuitive appeal. There are however few examples in comparative assessments of cancerspecific risk across populations. Therefore, recent research aimed to estimate the lifetime risk of cancer at the global, world region and national level for 36 major cancer types.

Data from GLOBOCAN for 185 countries/regions for the year 2020 were obtained, alongside all-cause mortality and <u>population data</u> from the United Nations to estimate the lifetime risk of cancer using the "adjusted for multiple primaries (AMP)" method which accounts for the competing risk of death from causes other than cancer.

This study was led by Prof. Freddie Bray (International Agency for Research on Cancer) and Prof. Wenqiang Wei (National Cancer Center/National Clinical Research Center for Cancer/Cancer Hospital, Chinese Academy of Medical Sciences and Peking Union Medical College).

The estimated global lifetime risk of cancer from birth to death was 25.10% (95% CI: 25.08%–25.11%) in 2020; the risk among men was 26.27% (95% CI: 26.24%–26.30%) in men and 23.96% (95% CI: 23.93%–23.98%) in women. There were marked differences in risks between countries within world regions and by the level of human development.

In very high Human Development Index (HDI), high HDI, medium HDI, and low HDI countries/regions, the lifetime risk of cancer was 38.48%, 25.38%, 11.36%, and 10.34%, respectively. Worldwide, prostate cancer and breast cancer were associated with the greatest lifetime risks among men and women, of 4.65% and 5.90% respectively. The lifetime risk of cancer decreased with age, with a remaining risk of 12.61% (95% CI: 12.60%–12.63%) from the age of 70 years.



This study presents a comprehensive quantification of lifetime risks of developing cancer globally and the identified age-specific variations in <u>cancer risk</u> at the <u>population level</u>, which can provide important information for global health systems planning as well as targeted cancer control interventions in different countries or regions.

The work is <u>published</u> in the journal *Science Bulletin*.

**More information:** Rongshou Zheng et al, Global, regional, and national lifetime probabilities of developing cancer in 2020, *Science Bulletin* (2023). DOI: 10.1016/j.scib.2023.09.041

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