

Genetic Science Spotlight

National Cancer Center in Beijing identified lung cancer to be the leading cause of all cancer death in China attributed by increasing environmental carcinogens and tobacco exposure

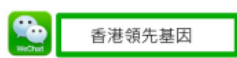


A study from the National Cancer Center in Beijing of 72 local, population-based cancer registries (2009-2011) estimated that 4292,000 new cancer cases and 2814,000 cancer deaths would occur in China in 2015, with lung cancer being the most common incident cancer and the leading cause of all cancer death. Tobacco-related cancer accounts for a staggering 23%-25% of all cancer death in China and the numbers of smokers are steadily rising amongst the adolescent and young adults. The aggressive economic growth has also resulted in an increase in environmental pollution. China is noted for its outdoor air pollution and indoor air pollution through heating and cooking using coal and other biomass fuels, and the contamination of soil and drinking water mean that the Chinese population is exposed to many environmental carcinogens. In another article, Janice Nolen, assistant vice president of National Policy at the American Lung Association and one of the authors of the organization's 18th Annual State of the Air report said particle air pollution, which comprises of a mix of solid and liquid particle and different chemical and biological component that came from burning wood, diesels and fossil fuels is harmful to human body and is associated to lung cancer. It is classified as human carcinogen in 2013 by WHO. It is suggested that many of the estimated cancer cases and deaths can be prevented through reducing the prevalence of risk factors, while increasing the effectiveness of clinical care delivery, particularly for those living in rural areas and in disadvantaged populations.

<http://health.usnews.com/health-care/patient-advice/articles/2017-05-02/the-link-between-air-pollution-and-lung-cancer>

<http://onlinelibrary.wiley.com/doi/10.3322/caac.21338/full>

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