

CANCER EPIDEMIOLOGY, BIOMARKERS & PREVENTION

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ABOUT THE COVER

The cover image is adapted from Fig. 3 in the article, “Investigating Causal Effects of Hematological Traits on Lung Cancer: A Mendelian Randomization Study,” by Yang and colleagues. Figure 3 shows scatter plots for three identified hematological traits and lung carcinoma. Observational studies have suggested blood cell counts may act as predictors of cancer. It is not known whether these hematological traits are causally associated with lung cancer. In this study, using summary data of large-scale GWAS, the authors performed a series of two-sample MR analyses to establish whether hematological traits have a causal effect on the risk of lung cancer and its different subtypes. They found evidence that genetically influenced higher hematocrit and hemoglobin concentration and reticulocyte count decreased lung carcinoma risk, especially in ever smokers. Multivariable MR (MVMR) further identified hematocrit independently of smoking as an independent predictor. Subgroup analysis showed that a higher plateletcrit level increased the risk of small cell lung carcinoma. Hematological traits may act as low-cost factors for lung cancer risk stratification. Further studies are required to elucidate the potential mechanisms underlying the dysregulation of homeostasis related to hematological traits, such as subclinical inflammation. For more information, see the article beginning on page 96.

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