

台灣的肺癌篩檢

Lung cancer screen in Taiwan

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Lung cancer is the most lethal malignancy in Taiwan. In the past, the five-year survival rate was only about 15%. Early lung cancer is usually asymptomatic; however, most patients are presented with symptoms and 75% are diagnosed at advanced or metastatic disease. Early detection of lung cancer is the most effective way for improving lung cancer survival. Low-dose computed tomography (LDCT) scan is a proven tool for lung cancer screening. The NLST study in the United States and the NELSON study in Dutch have confirmed that LDCT scanning for high-risk smokers can effectively reduce lung cancer mortality. However, half of Taiwan's lung cancer patients do not smoke, so the risk model developed in western countries is not suitable for us. In addition, the effectiveness of LDCT for lung cancer screening in non-smokers is not clear. Based on the risk prediction model for non-smoking lung cancer established in previous studies, a nation-wide collaborative LDCT lung cancer screening trial has been conducted in 2014 and is expected to complete the enrollment by the mid 2019.