

# 專題演講

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題目：Predicting stage I lung cancer based on LDCT and health examinations

摘要：

The incidence and mortality of lung cancer are high, but the prognosis is poor. Early detection of lung cancer often has a higher chance of curative treatment and thus improves survival rate. Low-dose computed tomography (LDCT) screening has been shown to be effective for high-risk individuals in several clinical trials. However, the screening can also cause high false positives and overdiagnosis leading to unnecessary tests. Assessing the risk of early lung cancer in the general population is important to preventive healthcare. In this talk, I'll share a retrospective study conducted in a teaching hospital in Taiwan. Statistical analysis were applied to evaluate the risk factors of lung cancer, and construct a prediction model for stage I lung cancer. The best prediction model selected 17 variables and reached an AUC of 0.93. Combining LDCT and health examination results can effectively assess the presence of stage I lung cancer in the general population, not limited to smokers.