



統計科學研究所

INSTITUTE OF  
STATISTICAL SCIENCE



統計所博士後演講



中研院統計所

# 博士後演講

講題：Assessing a missing hazard ratio and confidence interval from a result of a published subgroup analysis

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地點：中央研究院統計科學研究所 B1F 演講廳

## Abstract

Results of subgroup analysis provide researchers valuable information in establishing research hypothesis for new clinical studies. However, it is often the case that the subgroups employed in a published paper miss the subgroup that researchers are interested in. We develop in this paper a method for assessing hazard ratio and its confidence interval in any subgroup that researchers are interested in based on the results of subgroup analysis given in a published paper, by focusing on a comparative clinical study of treatment group vs. control group having survival time as the primary endpoint, where subgroups are made by dividing the range of continuous bio-marker. The method is applied to Phase III clinical trial of comparing Nivolumab vs. Docetaxel for lung cancer where PD-L1 expression level is used to establish subgroups.

Keywords: biomarker, confidence interval, Cox proportional hazards model, hazard ratio, subgroup analysis.

※ 茶會；上午13：40開始

※ 英文演講，實體與線上視訊同步進行