



# 大阪医学統計学セミナー 第46回

Osaka Biostatistics Seminar

7月15日 (金)

16:00~17:30



OSAKA UNIVERSITY

場所：  
オンライン開催  
医学系研究科基礎研究棟L階  
医学統計学研究室

参加ご希望の方は、前日までに下記問い合わせ先にメールにてお申込みください。

**「Sensitivity analysis for publication bias on the time-dependent SROC analysis in meta-analysis of prognostic studies」**

講演者：Zhou Yi (医学統計学講座)

概要：

The use of biomarkers to predict patients' survival of cancer becomes popular in medicine nowadays. The predictive capacities of the biomarker are often measured by the hazard ratios between high- and low-expression groups defined by different cutoff values in prognostic studies. Due to the variations among the small prognostic studies, meta-analysis becomes useful to draw synthesized conclusions from multiple studies to help clinical decision making. Considering the time-to-event outcomes and heterogeneous cutoff values used in multiple prognostic studies, the time-dependent summary receiver operating characteristic (SROC) curve is recommended to summarize how well the biomarker discriminates high- and low-expression patients in a certain time interval. As a common issue in meta-analyses, publication bias may bring about biased estimates in the time-dependent SROC analysis. Thus, the assessment of the impact of publication bias on the synthesized results are necessary to help the decision-makers draw robust conclusions. In this study, a sensitivity analysis method is proposed for assessing the magnitude of publication bias on the time-dependent SROC analysis.

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