大阪医学統計学セミナー 第87回 Osaka Biostatistics Seminar

9月13日(金) $16:00 \sim 18:00$





SAKA UNIVERSITY

場所: 医学系研究科基礎研究棟L階 医学統計学研究室 オンライン併用開催

参加ご希望の方は、前日までに下記リンクまた はORコードより参加登録をお願いいたします。

https://forms.gle/ZJB3b1ZqEFNhpGeC8

few studies utilizing subgroup information

講演者:Huang Ao

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概要:

Random-effects meta-analyses have been widely used for evidence synthesis in medical research. However, conventional methods based on large sample approximation have been criticized for their poor performance in the case of very few studies (e.g., 2 to 4), which is very common in practice. Problems for the existing methods that aim to improve small sample performance always arise in the poor estimates of heterogeneity and very wide confidence intervals. In this research, motivated by meta-analyses in evaluating surrogate outcomes, which utilize units nested within a trial to perform a meta-analytic approach when the number of trials is very few, we proposed a fixed-effect estimate based method to synthesize the data from the subgroup-level instead of the study-level. Two DerSimonian-Laird type heterogeneity estimators were derived using the subgroup-level data, and the Henmi-Copas type variance was used to adequately reflect the accurate variance components. We considered the \$t\$-quantile based CIs to account for the small sample properties and used flexible degrees of freedom to reduce the lengths of CIs.

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