

國立中央大學

統計研究所

學術演講

主 講 人：呂剛中教授 (San Diego State University, USA)

講 題：Exact Tests in Binary Data under an Incomplete Block Crossover Design

時 間：105 年 05 月 31 日 (星期二) 上午 11:00 ~ 12:00

地 點：中央大學鴻經館 M605 室

茶 會：上午 10:30 ~ 11:00 地 點：鴻經館 510 室

ABSTRACT

To improve the power of a parallel groups design and reduce the time length of a crossover trial, we may consider an incomplete block crossover design. Under a distribution-free random effects logistic regression model, we derive an exact test and a Mantel-Haenszel (MH) Type of summary test procedure for testing non-equality in binary data when comparing three treatments. We employ Monte Carlo simulation to evaluate the performance of these test procedures. We find that both test procedures developed here can perform well in a variety of situations. We use the data taken as a part of the crossover trial comparing the low and high doses of an analgesic with a placebo for the relief of pain in primary dysmenorrhea to illustrate the use of the proposed test procedures.

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