TITLE: Considerations on Mixture Priors for Historical Borrowing in Confirmatory Studies

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ABSTRACT:

Incorporating relevant historical control information into the primary analysis is an attractive way to improve efficiency in drug development. Bayesian methods, with informative priors, are naturally suited to incorporating historical information. One popular approach is a finite mixture model with components for historical data as well as a component which contains no historical data. In this talk we will introduce a general approach for using mixture priors in confirmatory studies utilizing historical data (either treatment or control groups). We will discuss difficulties and potential solutions in communicating the operating characteristics, which operating characteristics are relevant to confirmatory studies, and quantifying the value of the proposed desi

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