

ASA-BI-NESS Statistics Webinar Series



Fang-Shu Ou, PhD

Assistant Professor,
Department of Health
Sciences Research,
Mayo Clinic, Rochester,
Minnesota

**September 26,
Thursday
9-10 am EST**

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[medecc.us@boehringer-
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Title

Milestone prediction for time-to-event endpoint monitoring in clinical trials

Abstract

Predicting the times of milestone events, i.e. interim and final analysis in clinical trials, helps resource planning. We aim to predict time the milestone event by combining the predictions from different models to craft a better predictor through prediction synthesis. A Bayesian prediction synthesis approach provides a better measure of the uncertainty involved in prediction of milestone events. We demonstrate the utility of this approach by simulations and apply the methods on 2 real clinical trial data, NCCTG N0147 and N9841. In summary, the Bayesian prediction synthesis methods automatically perform well even when the data collection is far from homogeneous. An R shiny app has been developed to carry out the prediction in a user friendly fashion.

Professional Biography

Dr. Fang-Shu Ou received her Ph.D. in Biostatistics from the University of North Carolina at Chapel Hill in 2015. After receiving her Ph.D. degree, she joined Mayo Clinic as an Assistant Professor in Biostatistics in the Department of Health Sciences Research. She is a faculty statistician in the gastrointestinal disease committee of Alliance of Clinical Trial in Oncology, an NCI funded cooperative group. She is also the Group Statistician for Academic and Community Cancer Research United (ACCRU) network and manages other biostatisticians to provide statistical support to investigator initiated trials activated through the ACCRU network.

Sponsored by

- American Statistical Association (Boston, Connecticut, Florida, New Jersey, Princeton/Trenton, and Washington chapters)
- Boehringer Ingelheim Pharmaceuticals, Inc. (Biostatistics and Data Sciences Department)
- New England Statistical Society (NESS)

For interested participants

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