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Assessment of Treatment Effects Following Intermediate Events in Cancer Trials

Cancer trials are routinely designed to assess the effect of treatment on progression-free survival times, but real interest lies in identifying treatments that prolong survival. This talk will present challenges arising in the study of treatment effects on survival following progression as well as overall survival, in trials designed based on a progression-free survival endpoint. Issues of causal inference will be considered including methods based on propensity score analysis and marginal structural models. These approaches will be reviewed and application to a cancer trial will be used for illustration.