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The Performance of Different Propensity Score Methods for Estimating Marginal Hazard Ratios

The propensity score is a popular statistical method to remove the effects of observed confounding when estimating the effect of treatments, interventions and exposures when using observational data. Most research on propensity score methods has been in the context of continuous or binary outcomes. We examine the performance of four different propensity score methods (matching, weighting, stratification, and covariate adjustment) to estimate hazard ratios for survival outcomes.