Empirical Likelihood-based Confidence Intervals for Mean Medical Cost with Censored Data

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In this talk, we propose empirical likelihood methods based on influence function and jackknife techniques to construct confidence intervals for mean medical cost with censored data. Simulation studies are conducted to compare coverage probabilities and interval lengths of the proposed confidence intervals with the existing normal approximation-based confidence intervals. The proposed methods are observed to have better finite-sample performances than existing methods. The new methods are also illustrated through a real example.

This is a joint work with Jenny Jeyarajah.