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## Assessing systematic bias in mortality prediction of the Lee-Carter model

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This paper studies the mortality prediction performance of the Lee-Carter model. It has been found in literature that there exists systematic bias when using the Lee-Carter model for mortality prediction. The main purpose of this paper is to measure the magnitude of the bias using the bootstrap method and also to provide suggestions on how to correct the bias. We consider applying bias correction to two interested variables, mortality rate and life expectancy. We illustrate the effectiveness of correction through examining the forecast performance on simulated data as well as real mortality data from different countries.